

PALÉONTOLOGIE

FRANÇAISE.

Paris. — Imprimerie de Cosson, rue Saint-Germain-des-Prés, n° 9.

PALÉONTOLOGIE
FRANÇAISE.

DESCRIPTION ZOOLOGIQUE ET GÉOLOGIQUE

DE TOUS

LES ANIMAUX MOLLUSQUES ET RAYONNÉS

FOSSILES DE FRANCE,

PAR ALCIDE D'ORBIGNY,

CHEVALIER DE LA LÉGION-D'HONNEUR FRANÇAISE, OFFICIER DE LA LÉGION-D'HONNEUR BOLIVIENNE, PRÉSIDENT DE LA SOCIÉTÉ GÉOLOGIQUE DE FRANCE, AUTEUR DU VOYAGE DANS L'AMÉRIQUE MÉRIDIONALE, ETC., ETC.,

AVEC

les figures de toutes les espèces, lithographiées d'après nature,

PAR M. J. DELARUE.

TERRAINS CRÉTACÉS.

ATLAS.

TOME DEUXIÈME,

CONTENANT LES GASTÉROPODES.

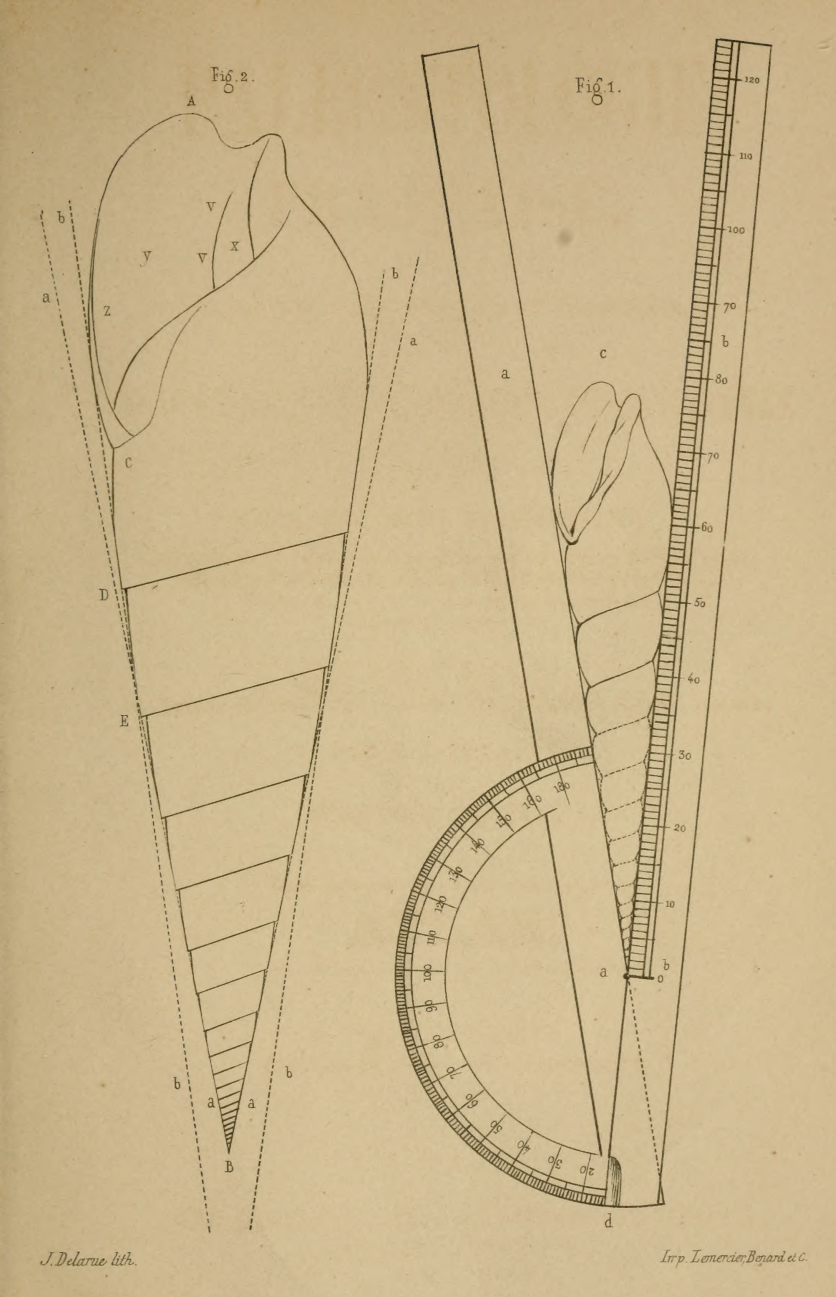
(De la planche 149 à 236 bis.)

A PARIS,

CHEZ ARTHUS BERTRAND, LIBRAIRE-ÉDITEUR,

Rue Hautefeuille, n° 23.

1842—1843



J. Delarue lith. Imp. Lemercier, Benard et C.

Gasteropodes généralités.

0 10 20 30 40 50 60 70 80 90 100

Fig. 1.

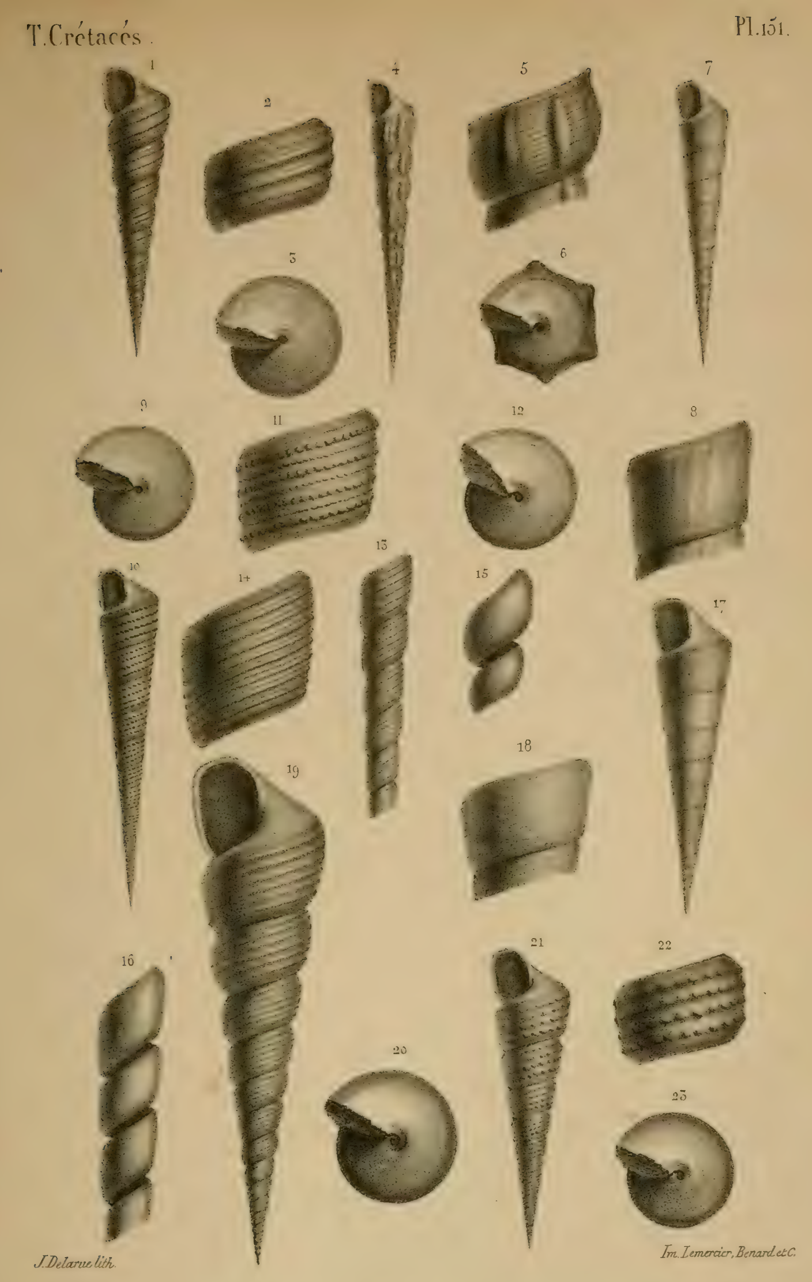
Fig. 2

A C c b e a S B S S S C S S S S S D S S a b

J. Delarue lith.

Imp. Lemercier Bénard et C.ie

Gasteropodes généralités.

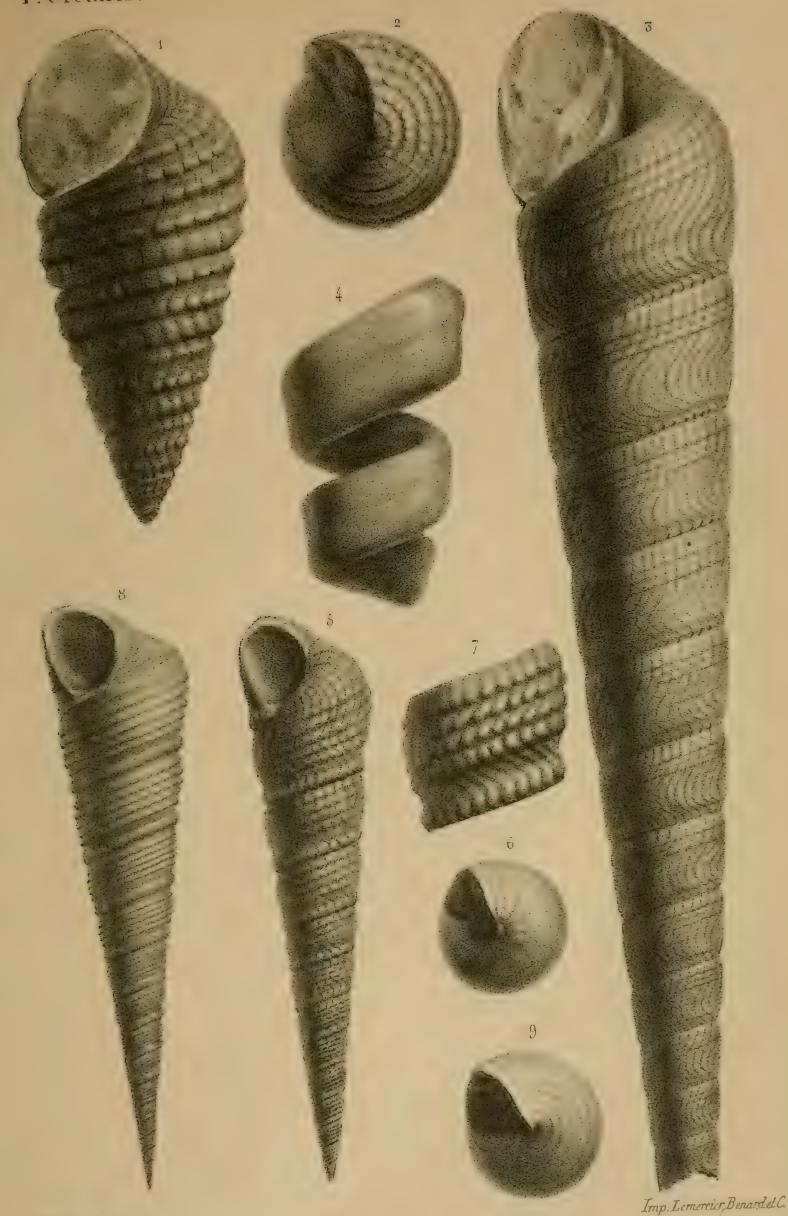


1.3. *Turritella Dupiniana*, d'Orb. N.
4.6. *T.* ——— *angulata*, d'Orb. N.
7.9. *T.* ——— *lævigata*, Leymerie. N.
10.12 *T.* ——— *Vibrayeana*, d'Orb. G.

13.16. *Turritella Hugardiana*, d'Orb. G.
17.18. *T.* ——— *Rauliniana*, d'Orb. G
19.20. *T.* ——— *Difficilis* d'Orb. C.C.
21.23. *T.* ——— *Uchauxiana* d'Orb. C.C.



1-4. *Turritella Renauxiana*, d'Orb. C.C.
5.6. *T. ——— Requieniana*, d'Orb. C.C.



J. Delarue lith.

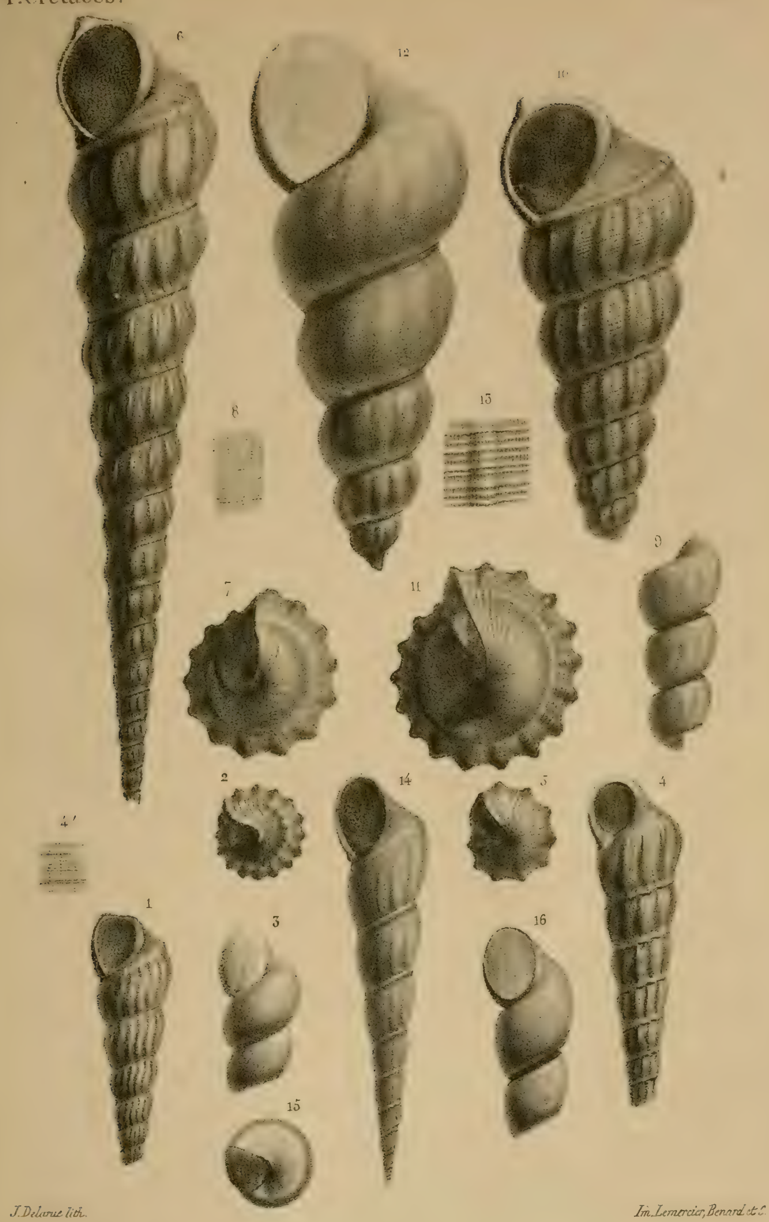
Imp. Lemercier, Benard et C.

1.2. *Turritella Coquandiana, d'Orb. C.C.*

3.4. *T. ——— Bauga, d'Orb. C.C.*

5.7. *T. ——— granulata Sowerby. C.C.*

8.9. *T. ——— Verneuiliana d'Orb. C.C.*



J. Delarue lith.

Im. Lemercier, Benard et C.

1.3. *Scalaria canaliculata*, d'Orb. N.
4.5. *S.* ——— *albensis*, d'Orb. N.
6.9. *S.* ——— *Clementina*, d'Orb. G.
10.13. *S.* ——— *Dupiniana*, d'Orb. G.
14.16. *S.* ——— *gaultina*, d'Orb. G.

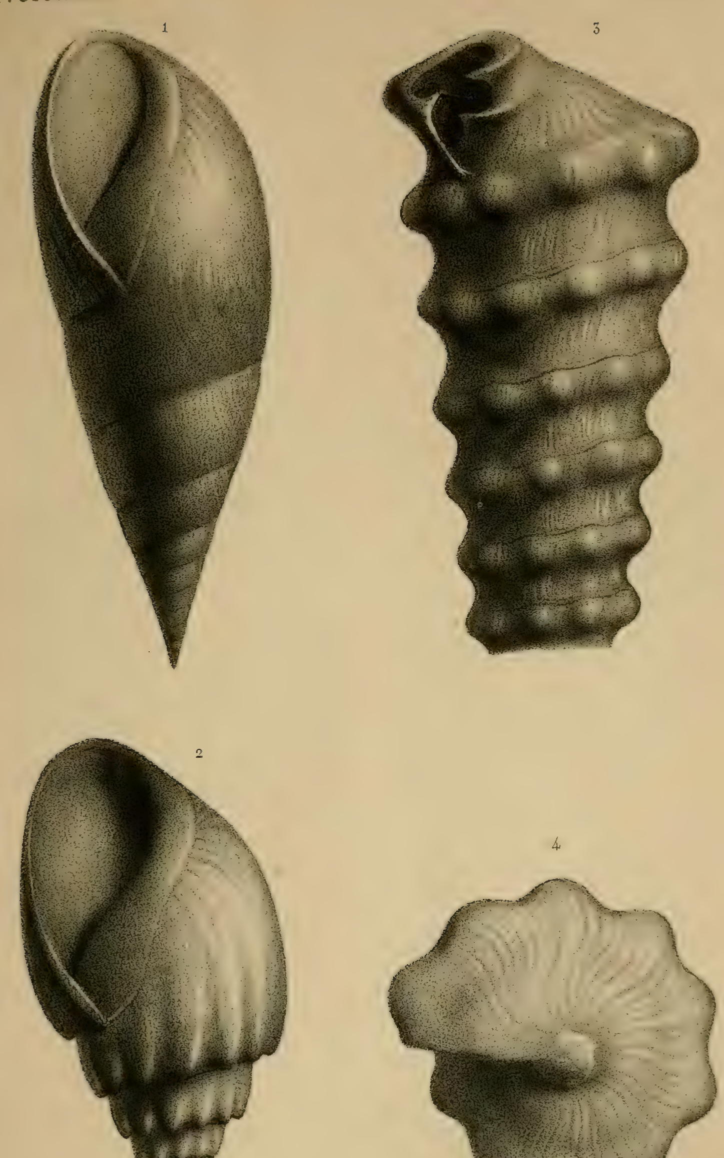


J. Delarue lith.

Imp. Lemercier Bénard et C.

1.4. Scalaria Rauliniana, d'Orb. G.
5.7. S.___ Gastina, d'Orb. G.
8.10. Rissoa Dupiniana, d'Orb. G.
11.13. Rissoina incerta, d'Orb. G.

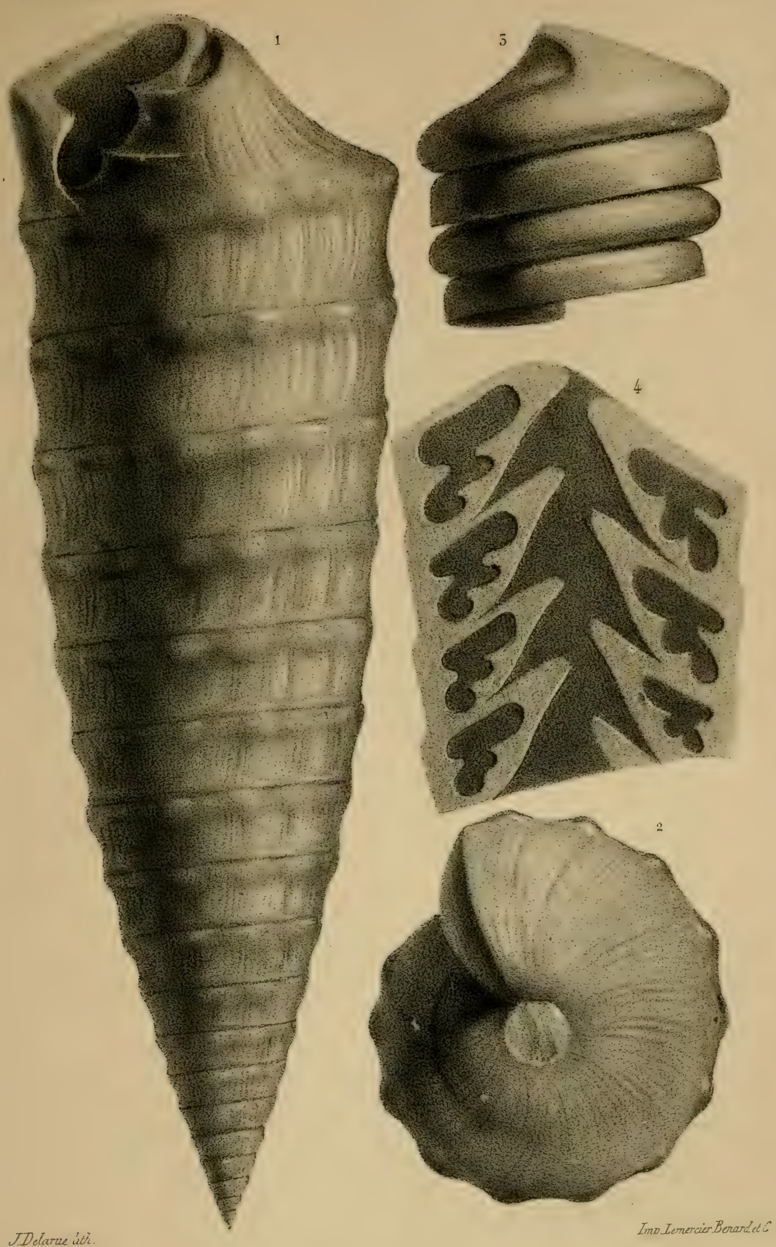
14.15. Eulima albensis, d'Orb. N.
16.17. E.___ melanoides, Deshayes N.
18. E.___ Requieniana, d'Orb. C.C.
19. Chemnitzia Pailletteana, d'Orb. C.C.
20. C.___ mosensis, d'Orb. C.C.



J. Delarue lith.

Imp. Lemercier, Benard et C.

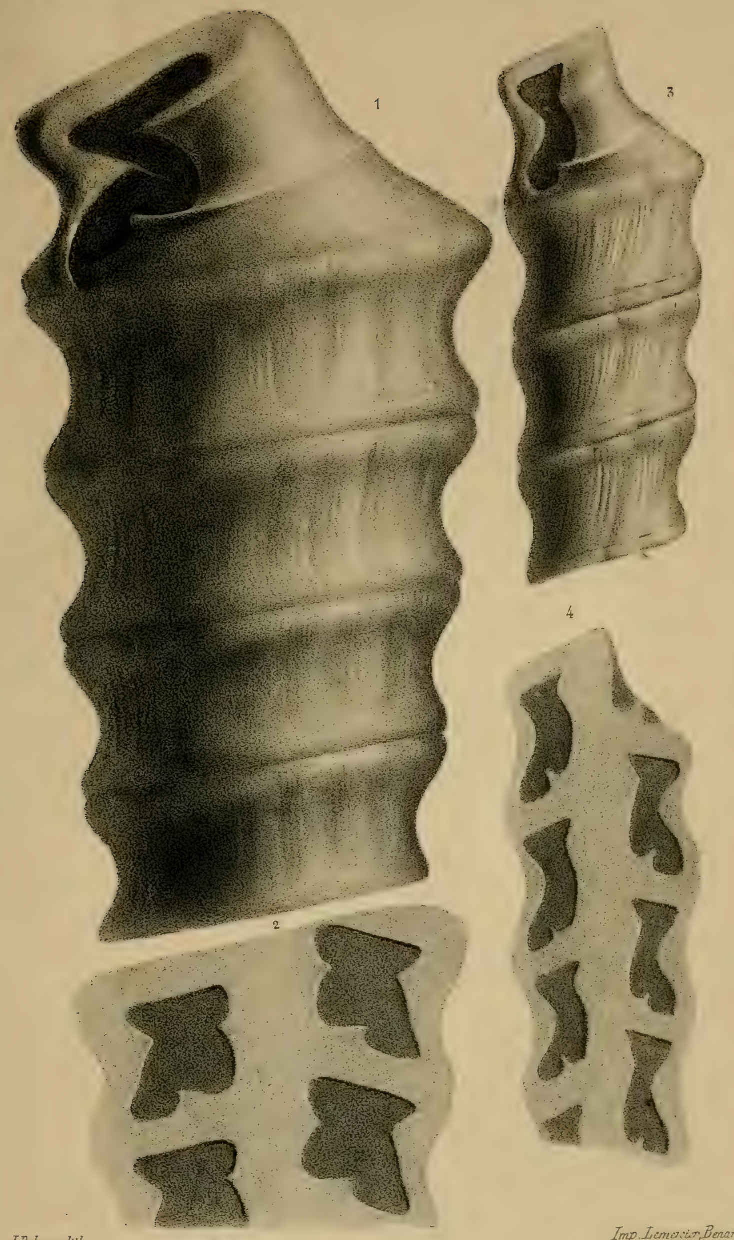
1. *Eulima amphora, d'Orb. C.C.*
2. *Chemnitzia inflata, d'Orb. C.C.*
3-4. *Nerinea Coquandiana, d'Orb. N.*



J. Delarue lith.

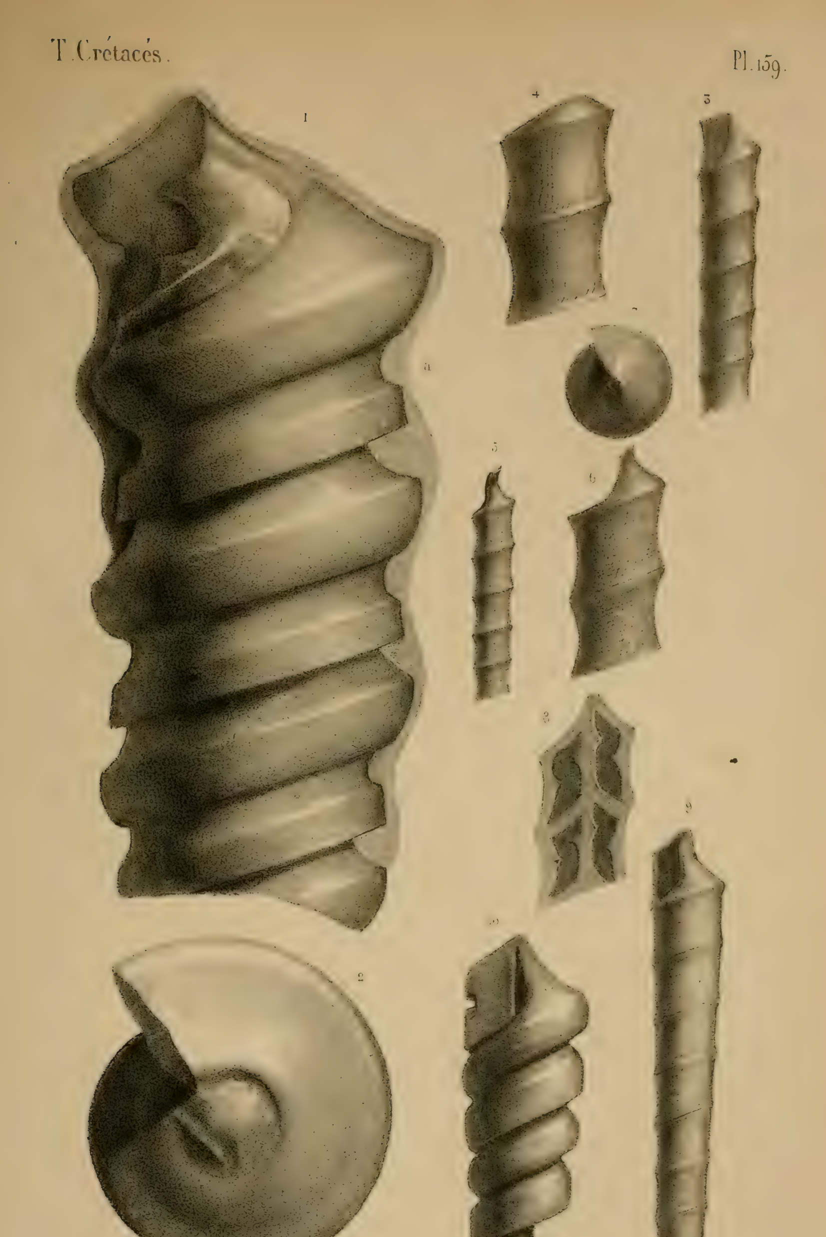
Imp. Lemercier Bénard et C.

Nerinea Renauxiana, d'Orb. N.



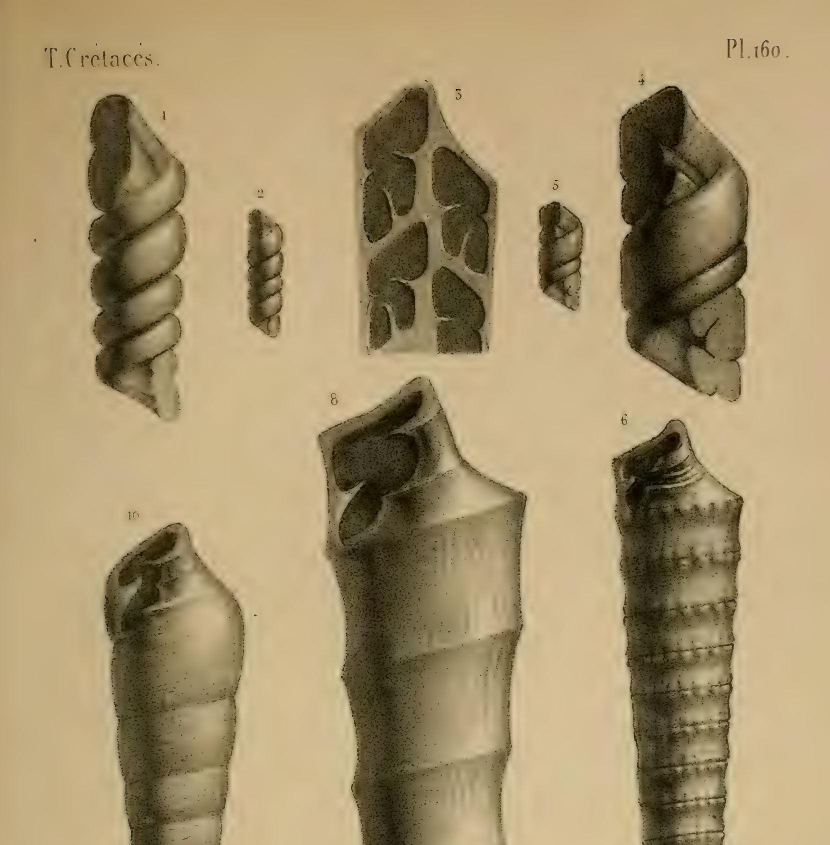
J. Delarue lith. Imp. Lemercier, Benard et Cie.

1.2. Nerinea gigantea d'hombre-Firmas, N.
3.4. N. —— Archimedi, d'Orb. N.



J. Delarue lith. Imp. Lemercier, Bénard et C.

1_2 *Narinea Chamouseti, d'Orb. N.*
3_4. *N. ——— Royeriana ; d'Orb. N.*
5_8. *N. ——— Dupiniana , d'Orb. N.*
9_10. *N. ——— Matronensis , d'Orb. N.*



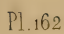
Imp. Lemercier Benard et C.

1. 2. *Nerinea Carteroni*, d'Orb. N.
3. N._____ *lobata*, d'Orb. N.
4. 5. N._____ *bifurcata*, d'Orb. N.

6. 7. *Nerinea Fleuriausa*, d'Orb. CC.
8. 9. N._____ *Aunisiana*, d'Orb. CC.
10. N._____ *regularis*, d'Orb. CC.

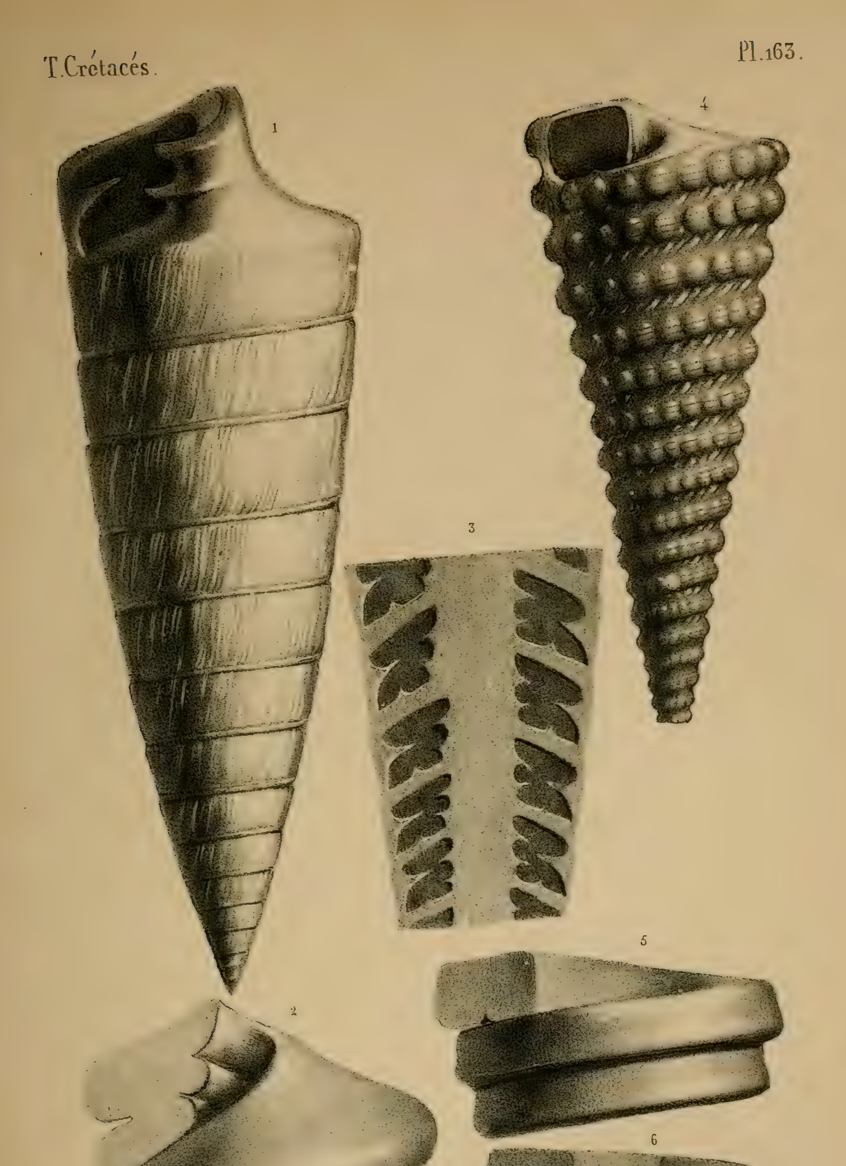


1-3. *Nerinea Pailletteana*, d'Orb. CC.
4-5. *N.* —— *pulchella*, d'Orb. CC.
6-7. *N.* —— *pauperata* d'Orb. CC.



J. Delarue lith.

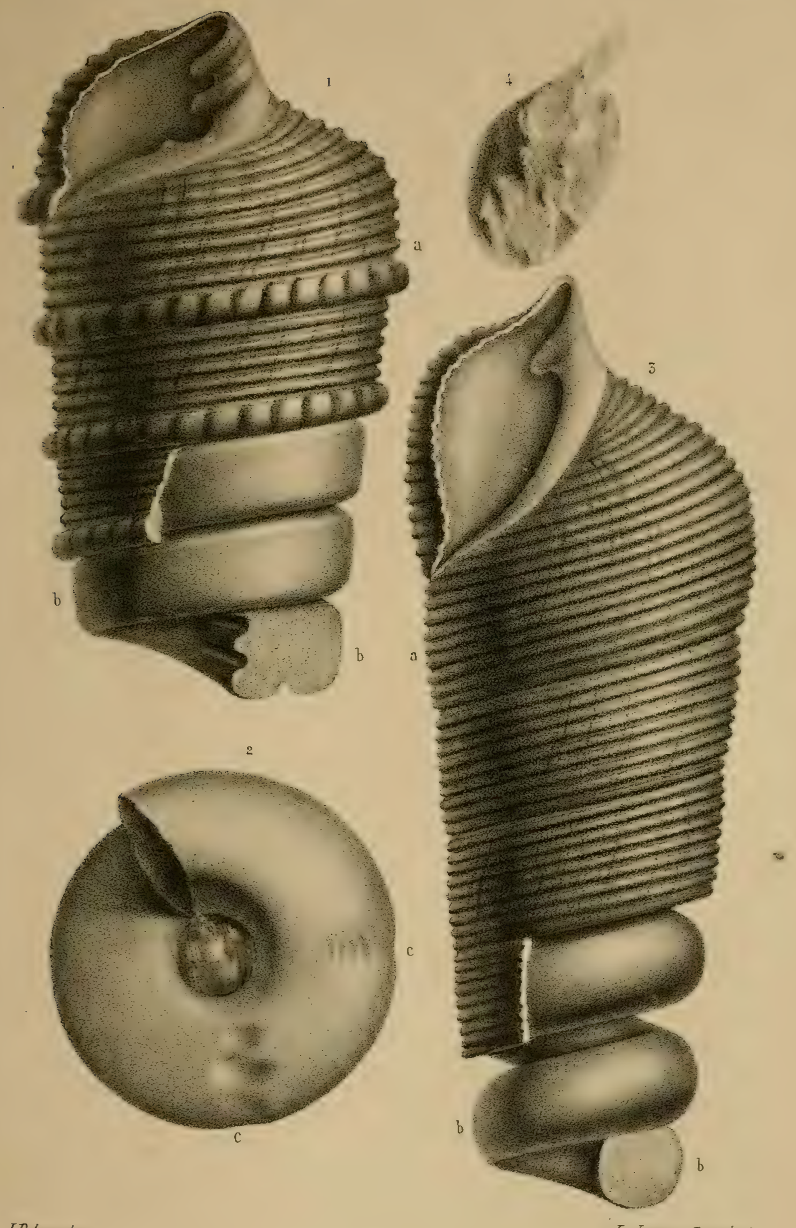
1_2 Nerinea Bauga. d'Orb. CC
3_4 N. ——— brevis. d'Hombre CC.
5_6 N. —— subœqualis, d'Orb. CC



J. Delarue del.

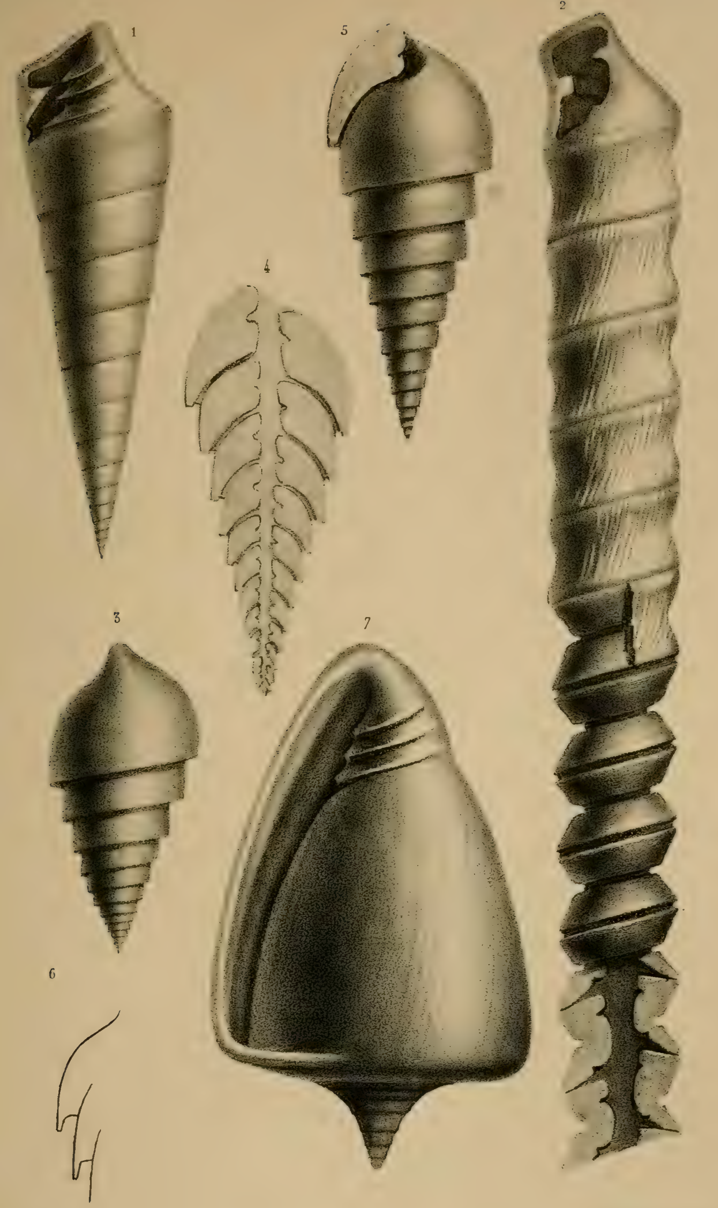
Imp. Lemercier, Benard et Cie

1.3. *Nerinea Requieniana, d'Orb. CC.*
4.6. *N. —— monilifera, d'Orb. CC.*



J. Delarue del. Im. Lemercier, Benard et C.

1_2. Nerinea Marrotiana, d'Orb. CC.
3_4. N. ——— perigordina, d'Orb. CC.



J. Delarue del.

Imp. Lemercier, Benard et Cie

1. *Nerinea vichauxiana, d'Orb. CC.*
2. *N. —— Espaillaciana, d'Orb. CC.*
3. 6. *Pyrimidella canaliculata, d'Orb. CC.*
7. 8. *Acteonella, Renauxuna, d'Orb. CC.*

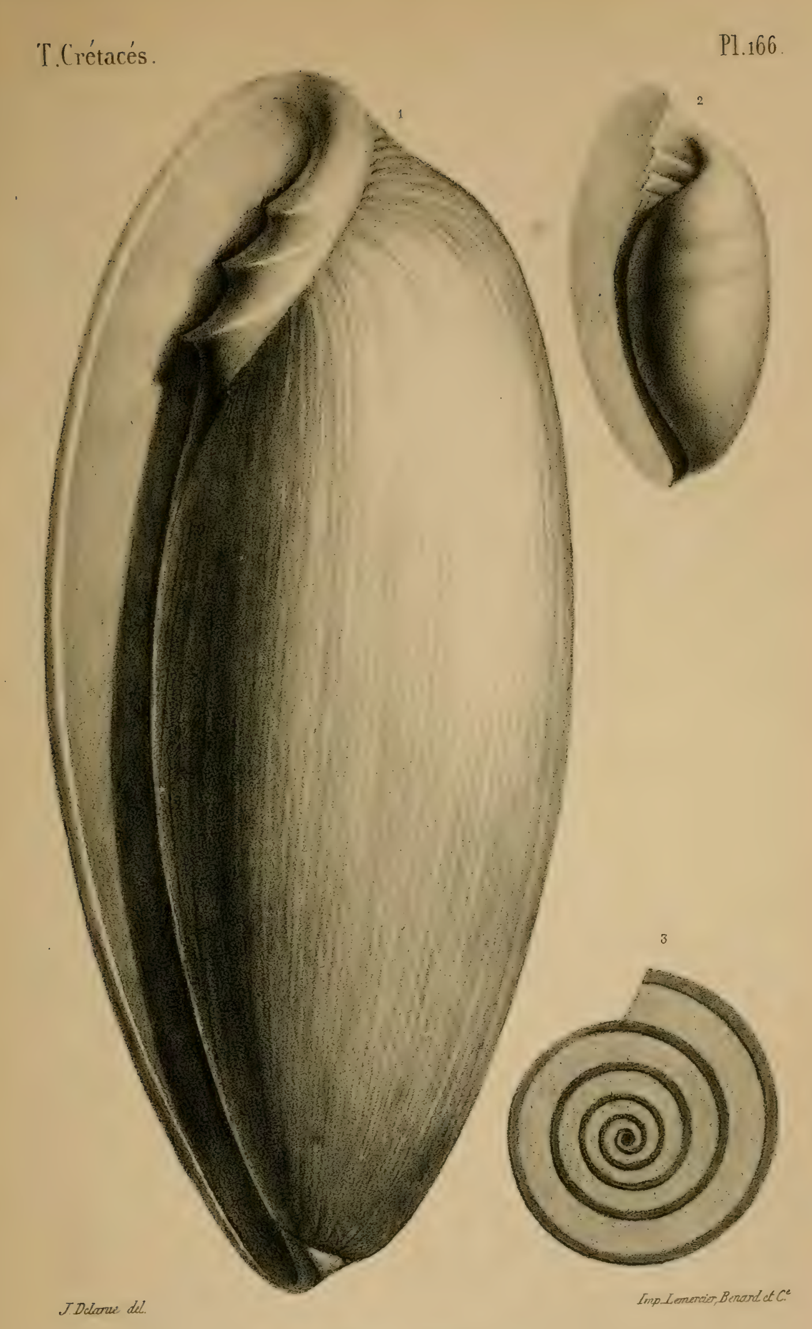


2 3

1

J. Delarue del. Im. Lemercier Benard et C.ie.

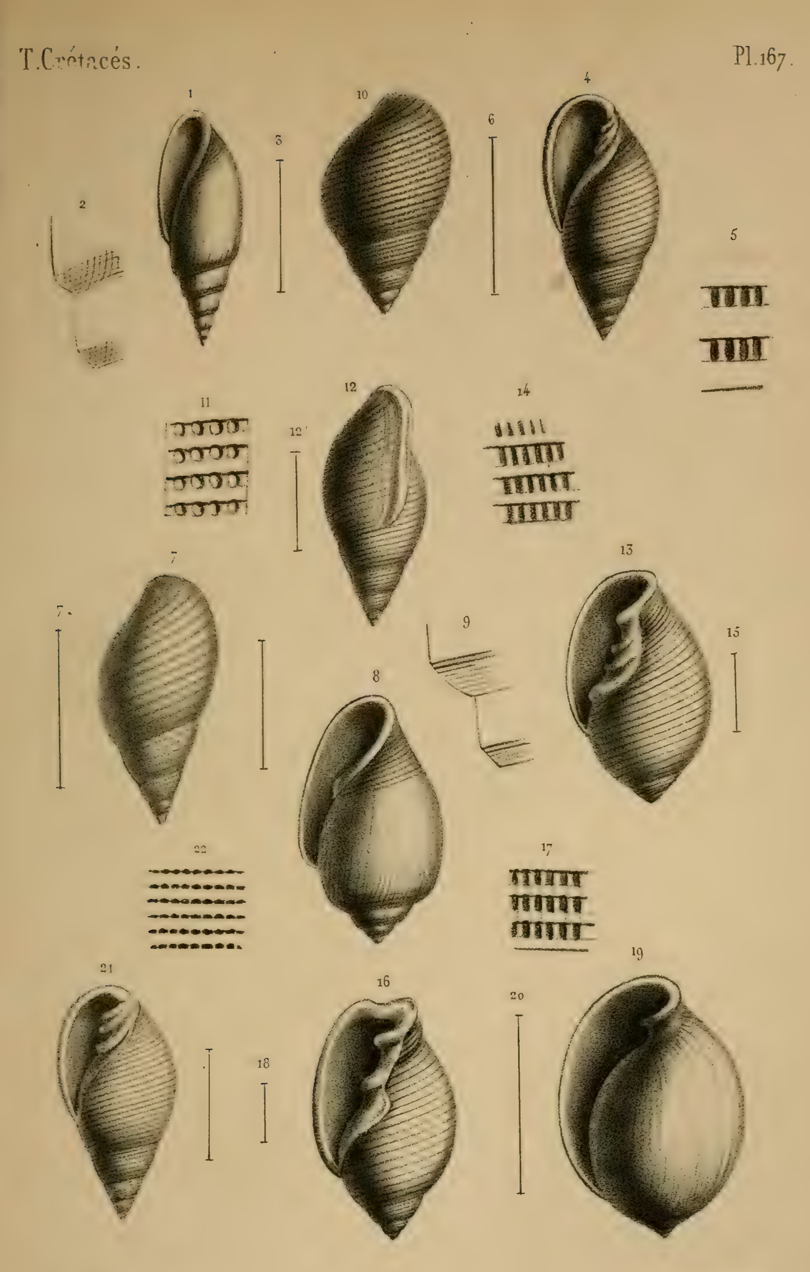
1. *Acteonella gigantea*, d'Orb. CC.
2.3. *A.* ——— *lœvis*, d'Orb. CC.



J. Delarue del.

Imp. Lemercier, Benard et Cie

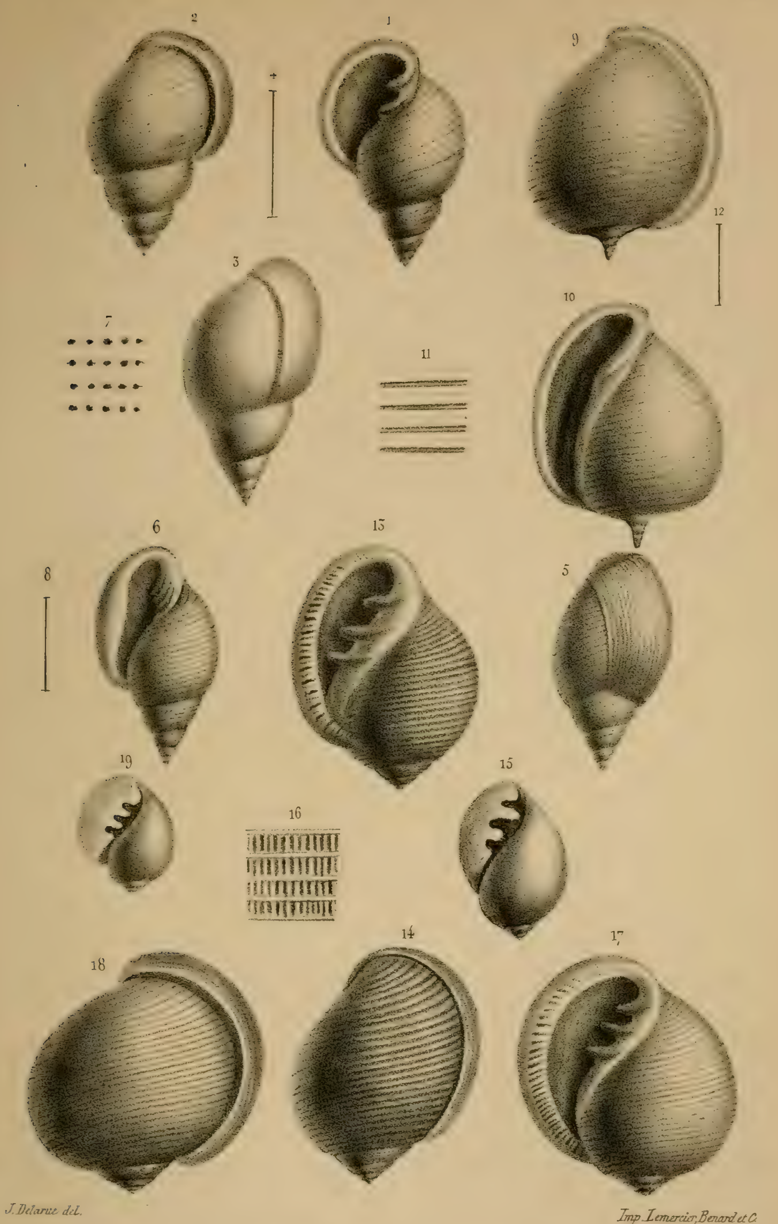
Acteonnella crassa d'Orb. CC.



J. Delarue del. Im. Lemercier, Benard et C.

1.3. *Acteon Dupiniana*, d'Orb. N.
4.6. A. — *affinis*, d'Orb. N.
7. A. — *Astieriana*, d'Orb. N.
8.9. A. — *marginata*, d'Orb. N.
10.12. A. — *albensis*, d'Orb. N.

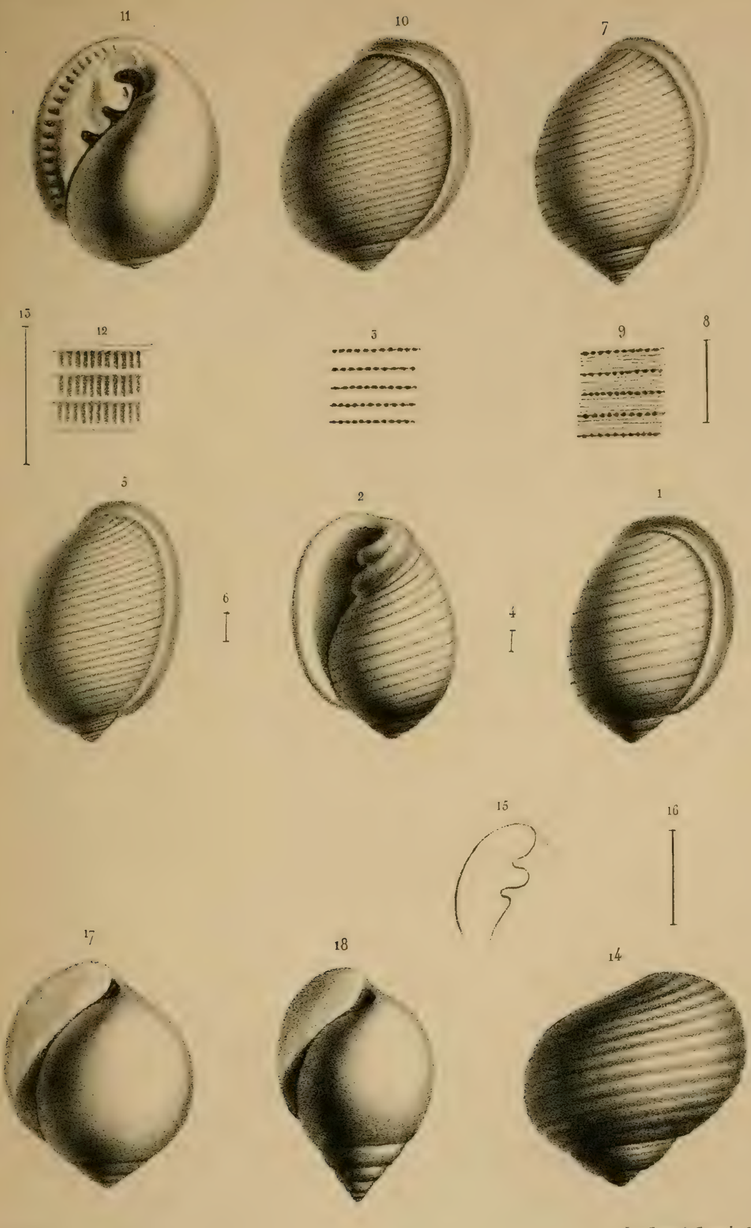
13.15. A. — *ringens*, d'Orb. N.
16.18. A. — *Vibrayeana*, d'Orb. G.
19. A. — *Ovum*, d'Orb. C.C.
22.23. *Ringinella lacryma*, d'Orb. G.



J. Delarue del.

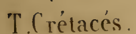
Imp. Lemercier, Benard et C.

1.4. Ringenella inflata, d'Orb. G.
5.8. R. ——— Clementina, d'Orb. G.
9.12. Avellana globulosa, d'Orb. N.
13.16. A. ——— incrassata, d'Orb. G.
17.19. A. ——— Hugardiana, d'Orb. G.



J. Delarue del. Imp. Lemercier Benard et C.

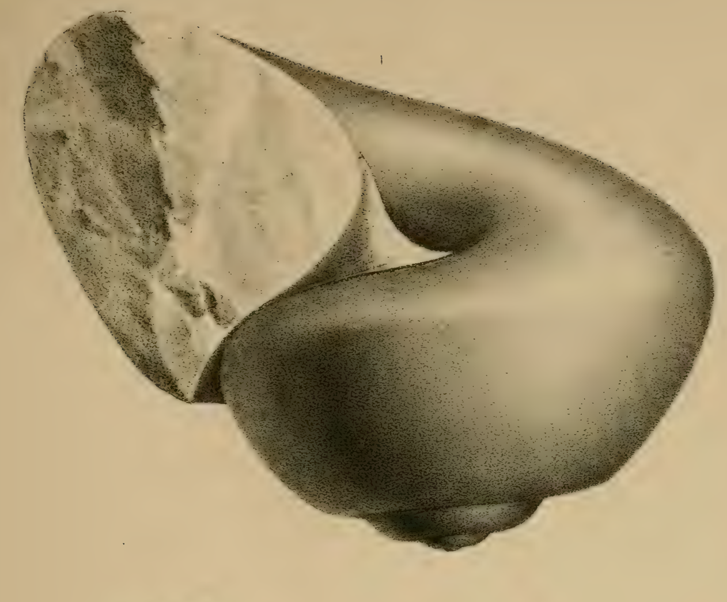
1.4. *Avellana Dupiniana, d'Orb. G.*
5.6. *A. ——— ovula, d'Orb. G.*
7.9. *A. ——— Archiaciana, d'Orb. C.C.*
10.13. *A. ——— Cassis, d'Orb. C.C.*
14.16. *A. ——— royana; d'Orb. C.C.*
17. *Globiconcha rotundata, d'Orb. C.C.*
18. *G. ——— Fleuriausa, d'Orb. C.C.*

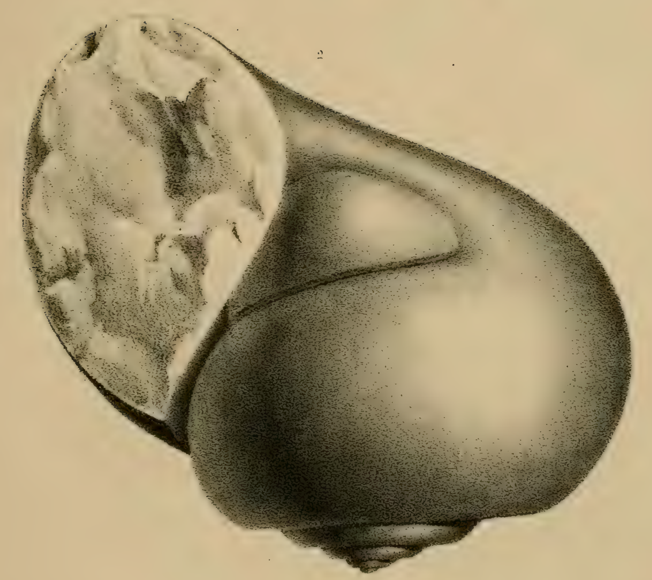


J. Delarue del.

Imp. Lemercier Benard et Cie

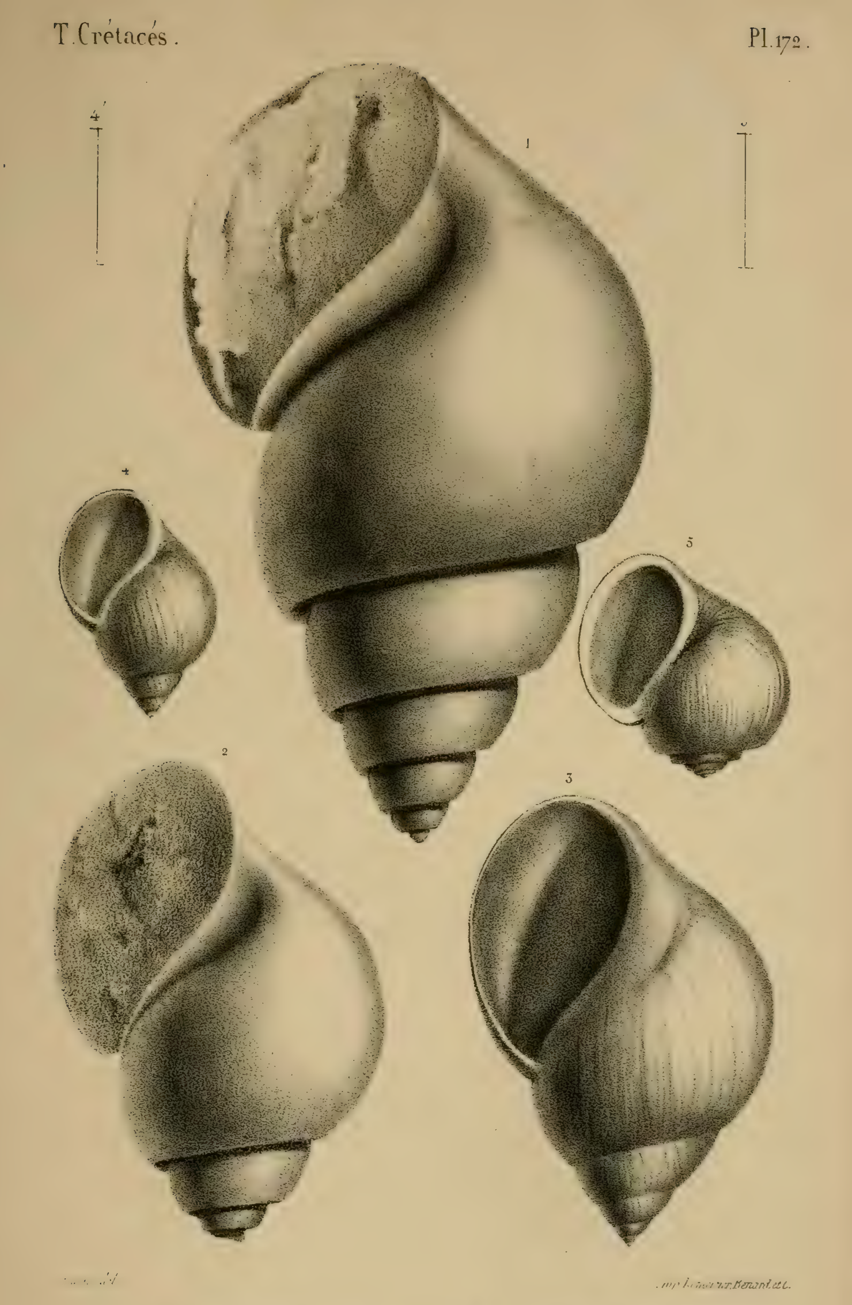
1.2. Globiconcha Marrotiana d'Orb. C.C.
3. G.______ ovula, d'Orb. C.C.
4.6. Natica lævigata, d'Orb. N.
7.8. N.______ Cornueliana, d'Orb. N.



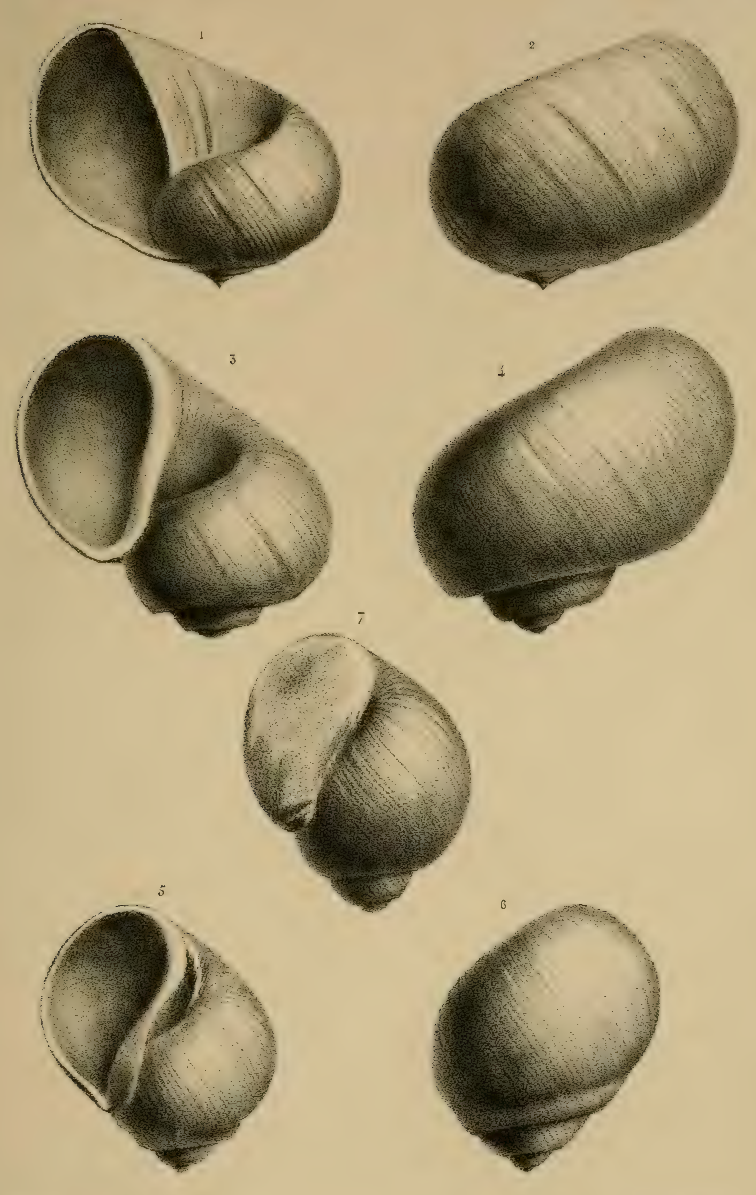


J. Delarue del. Im. Lemercier Benard et C.

1. Natica Coquandiana, d'Orb. N.
2. N. ___ Hugardiana, d'Orb. N.



1. Natica prolonga, Desh. N.
2 3. N. — bulimoides. d'Orb. N.
4. N. — Clementina, d'Orb. G.
5. N. — lyrata, Sowerby C.C.



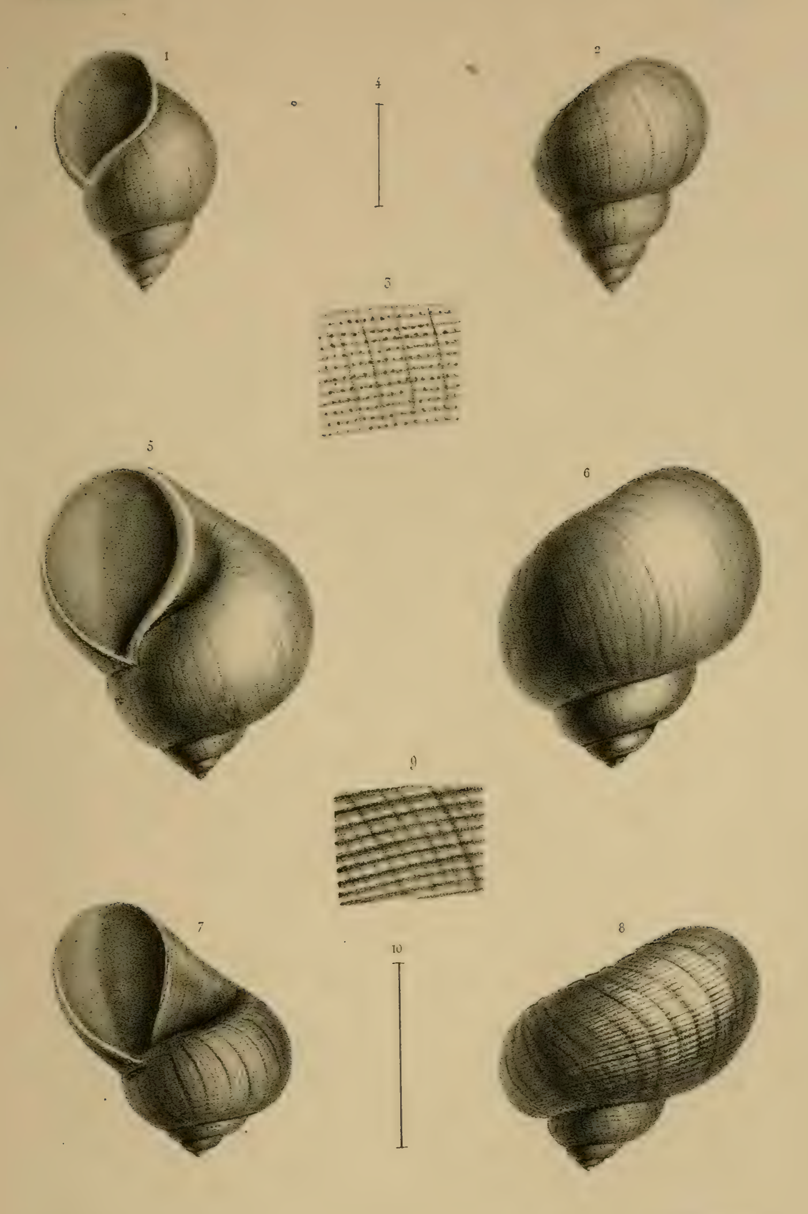
J. Delarue del. Imp. Lemercier, Benard et C.

1.2. *Natica excavata, Michelin. G.*
3.4. *N. —— Gaultina, d'Orb. G.*
5.6. *N. —— Dupinii Leym. G*
7. *N. —— ervyna, d'Orb. G.*

J. Delarue del.

Im. Lemercier Benard et C.

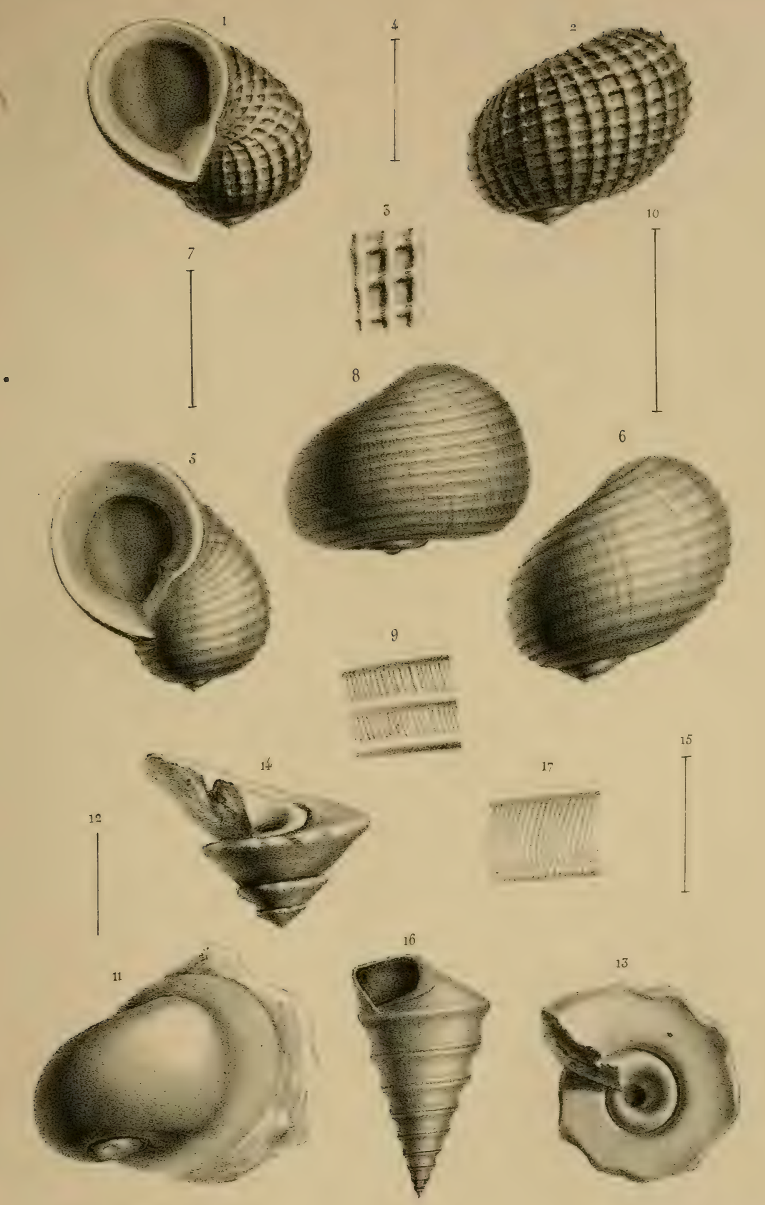
1. *Natica Rauliniana*, d'Orb. G.
2. *N.* ___ *Requieniana*, d'Orb. C.C.
3. *N.* ___ *bulbiformis*, Sowerby. C.C.
4. *N.* ___ *difficilis*, d'Orb. C.C.
5. *N.* ___ *Martinii*, d'Orb. C.C.
6. *N.* ___ *royana*, d'Orb. C.C.



J. Delarue del.

Imp. Lemercier, Benard et C.

1-4. Natica cassisiana, d'Orb. CC.
5-6. N. — Matheroniana, d'Orb. CC.
7-10. Narica cretacea, d'Orb. CC.



Delarue del. Im. Lemercier Benard et C.

1.4. *Nerilopsis Robineausiana, d'Orb. N.*
5.7. *N. ——— Renauxiana, d'Orb. CC.*
8.10. *N. ——— ornata ——, d'Orb. CC.*
11-12. *N. ——— lævigata, d'Orb. CC.*
13.15. *Phorus canaliculatus, d'Orb. CC.*
16.17. *Trochus Astierianus, d'Orb. N.*



J. Delarue del. Imp. Lemercier Benard et C.

1-3. *Trochus albensis, d'Orb. N.*
4-6. *T. —— striatulus, Desh. N.*
7-8. *T. —— marollinus, d'Orb. N.*
9-12. *T. —— dentigerus, d'Orb. N.*
13-14. *T. —— Requienianus, d'Orb. CC.*
15-17. *T. —— Marrotianus, d'Orb. CC.*



J. Delarue lith.   Imp. Lemercier Benard et Cie

1.3. Nerilopsis pulchella, d'Orb. C.C.
4.5. Trochus Guerangeri, d'Orb. C.C.
6.8. T. ——— sarthinus, d'Orb. C.C.
9.12. Solarium Guerangeri, d'Orb. C.C.
13.15. S. ——— scalaris, d'Orb. C.C.



3 6 4

5

1 2

7

7 12

8

10 11

13

J. Delarue del.

Imp. Lemercier, Benard et C.

1_3. *Trochus girondinus*, d'Orb. CC.
4_6. *Rotella Archiaciana*, d'Orb. CC.

7-9. *Solarium dilatatum*, d'Orb. N.
10_13. *S. —— Dipinianum*, d'Orb. N.



J. Delarue del.   Im. Lemercier Benard et C.

1–4. Solarium neocomiensis, d'Orb. N.
5–7. S. ——— Astierianum, d'Orb. G.
8–11. S. ——— moniliferum, Michelin. G.
12–14. S. ——— conoideum, Fitton G.



1 2 3 4 5 6 7 8 9 10 11 12

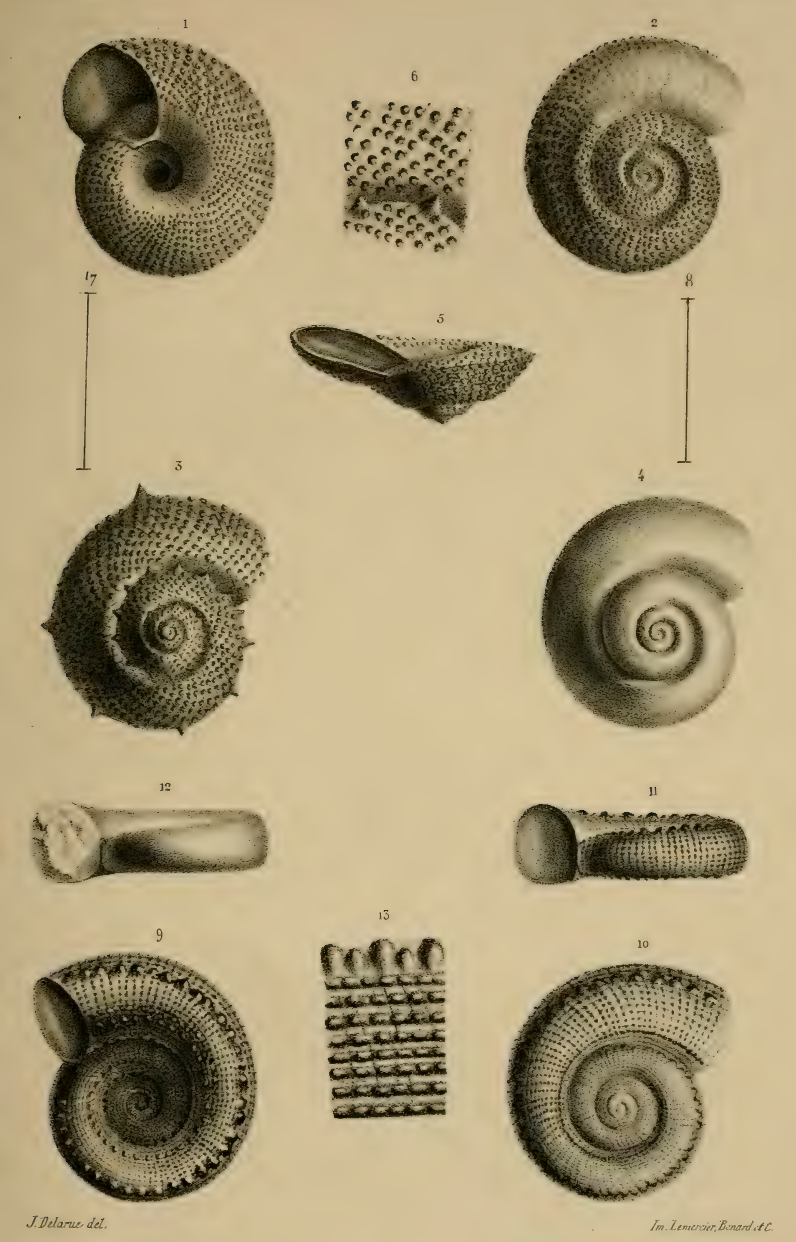
J. Delarue del.

Im. Lemercier Benard et C.

1-4. *Solarium ornatum, Fitton G.*

5-8. S. ____ *dentatum, d'Orb. G.*

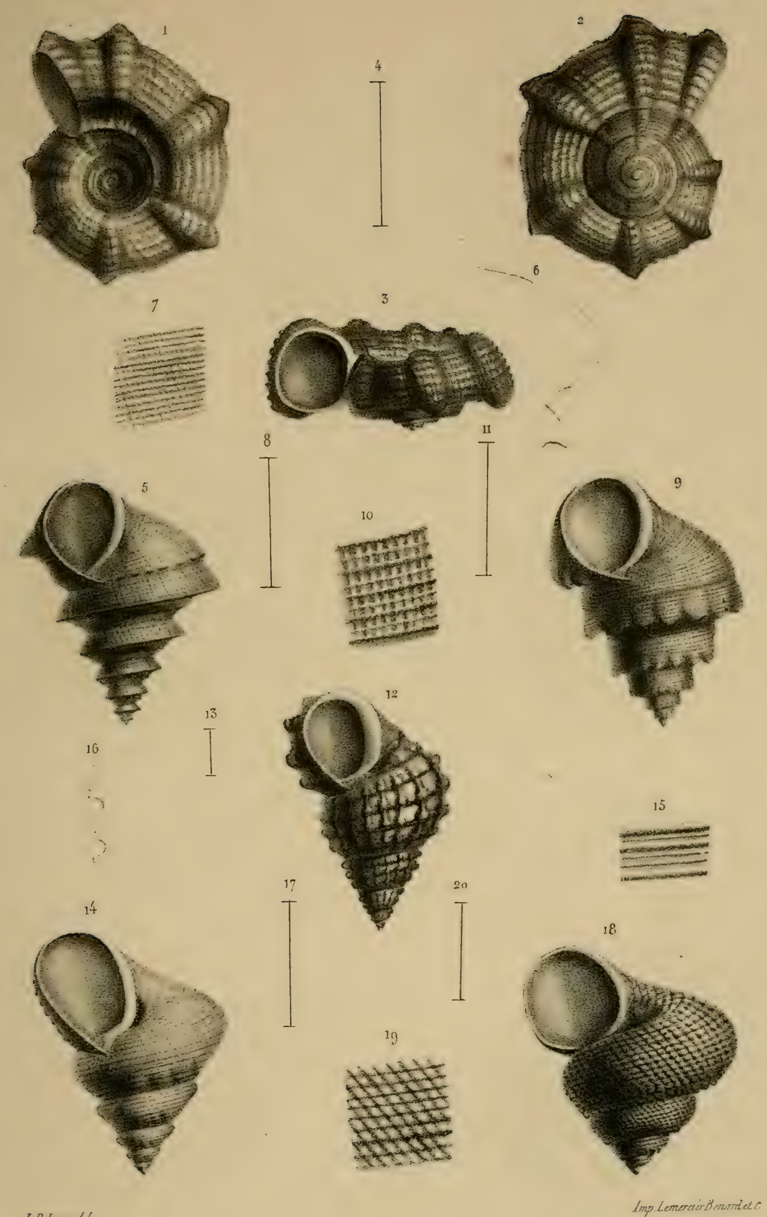
9-12. S. ____ *cirroides, d'Orb. G.*



J. Delarue del.

Im. Lemercier, Bénard et C.

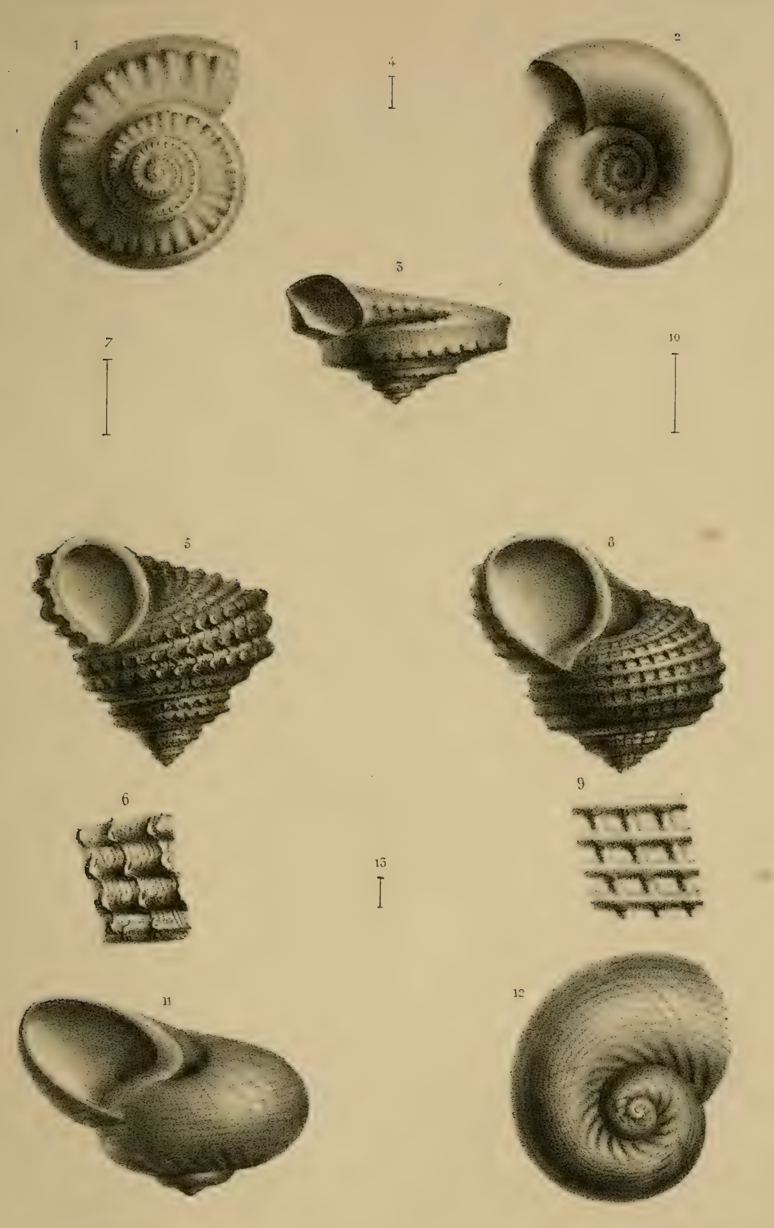
1-7. Solarium granosum, d'Orb. G.
8-13. S. —— Martinianum, d'Orb. G.



J. Delarue del.

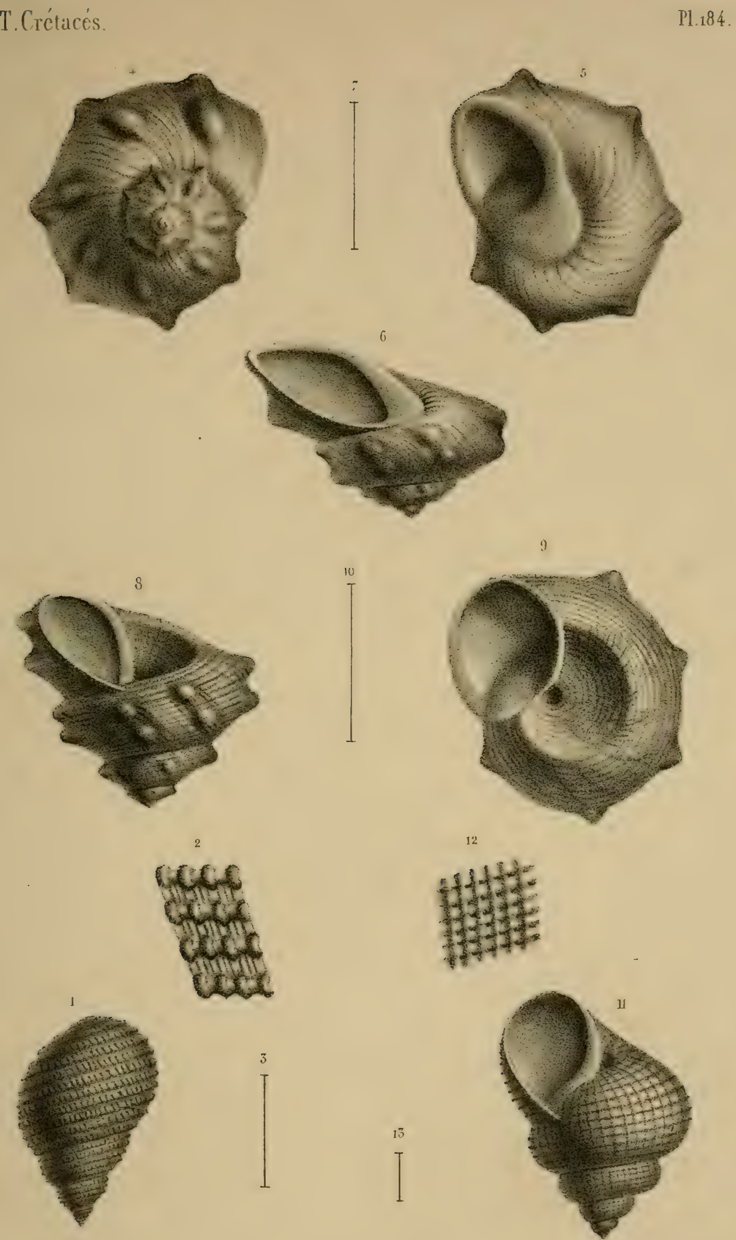
Imp. Lemercier Benard et C.

1-4. Delphinula Dupiniana, d'Orb. N.
5-8. Turbo Desvoidyi, d'Orb. N.
9-11. T. — acuminatus, Desh. N.
12-13. T. — marollinus, d'Orb. N.
14-17. T. — inconstans, d'Orb. N.
18-20. T. — Astierianus, d'Orb. G.



J. Delarue lith. Imp. Lemercier, Benard et C.

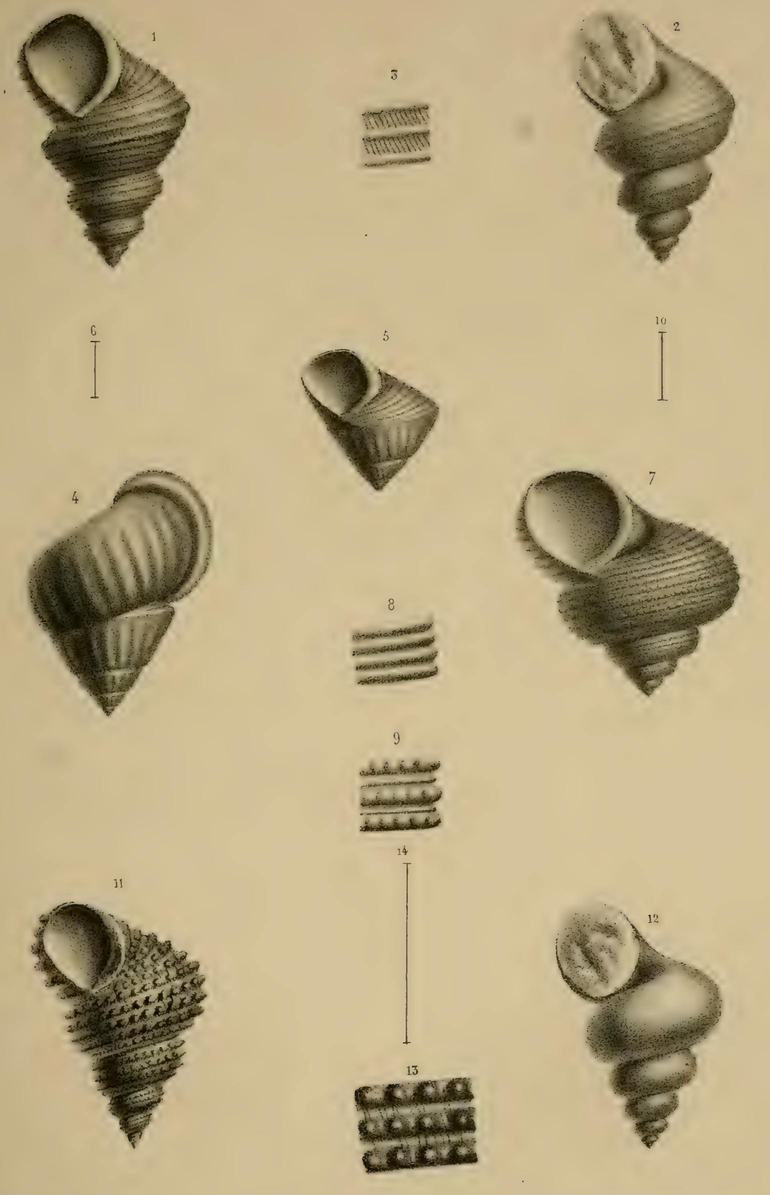
1-4- Solarium albensis, d'Orb. G.
5-7- Turbo Mantelli, Leymerie N.
8-10- T.____ yonninus, d'Orb. N.
11-13- T.____ plicatilis, Deshayes G.



J. Delarue lith.

Imp. Lemercier Benard et C.

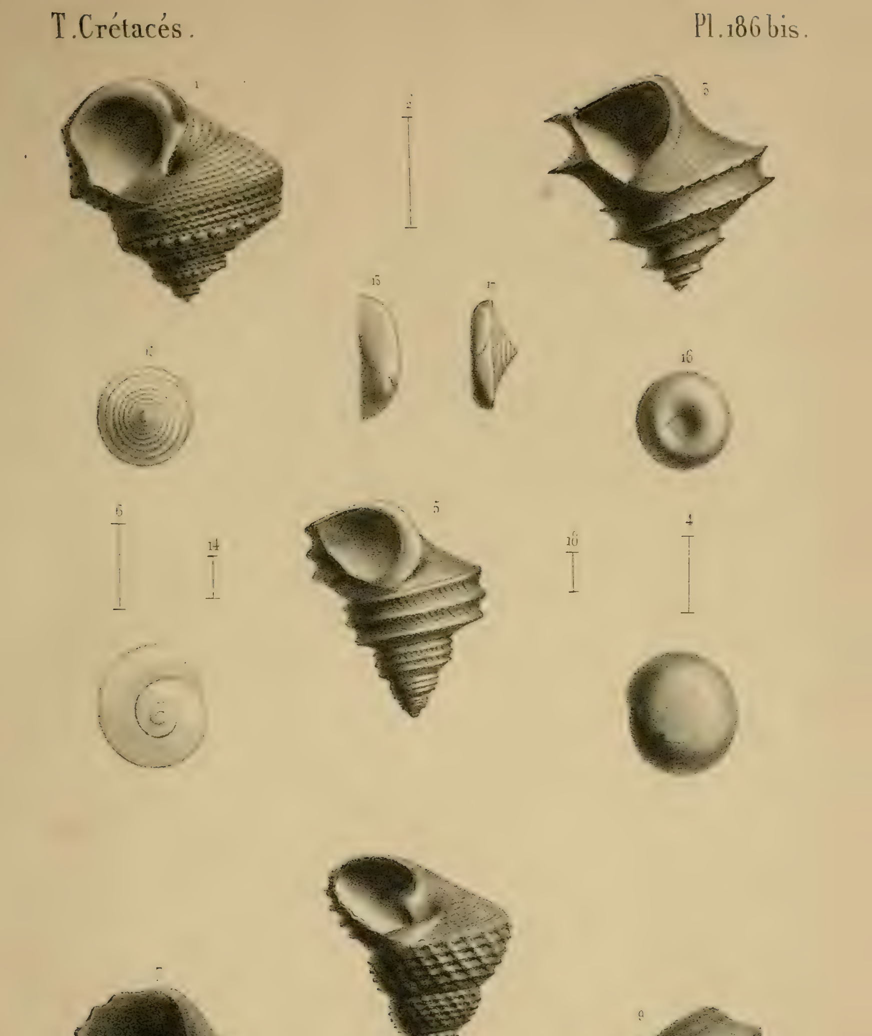
1-3. *Turbo elegans, d'Orb, N.*
4-7. *Turbo Martinianus, d'Orb. G.*
8-10. *T. Pictetianus, d'Orb. G.*
11-13. *T. decussatus, d'Orb. G.*



J. Delarue lith.

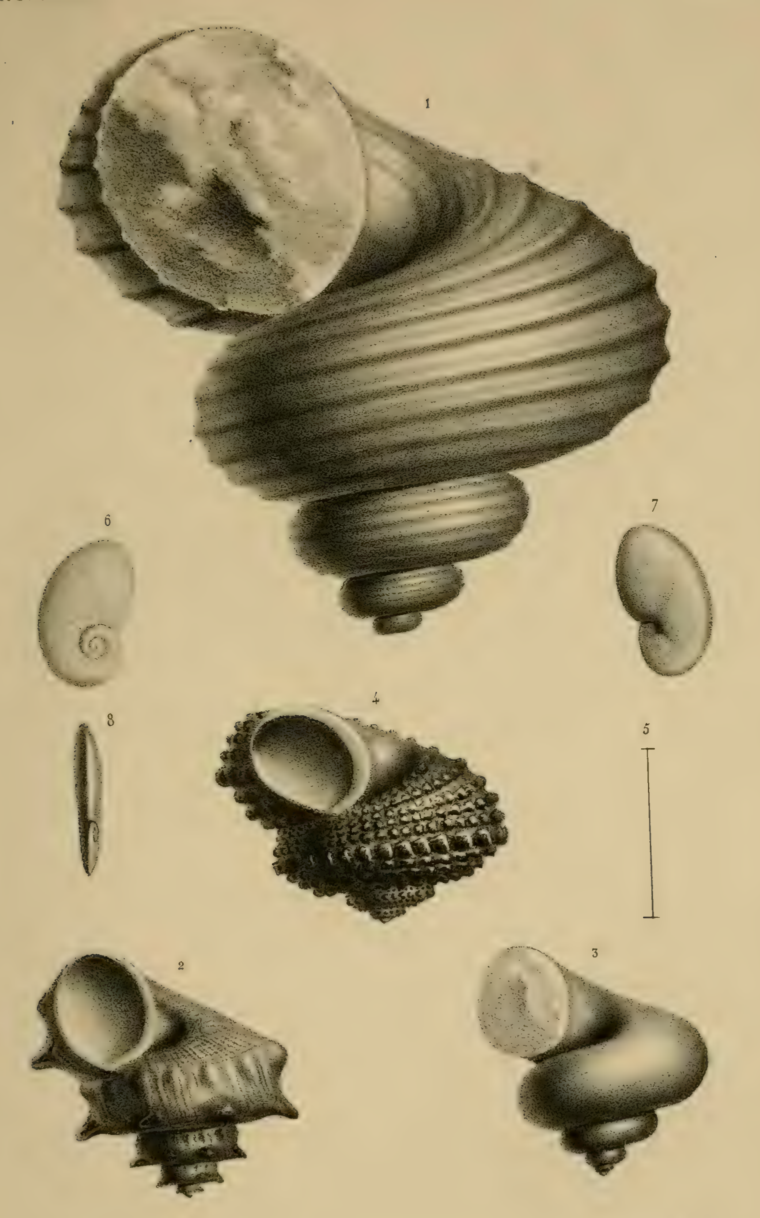
Imp. Lemercier, Benard et C.

1_3_ *Turbo Chassyanus*, d'Orb. G.
4_6. *T.* —— *dispars*, d'Orb. G.
7_10 *T.* —— *Goupilianus*, d'Orb. CC.
11_14 *T.* —— *rothomagensis*, d'Orb CC.



J. Delarue lith. Imp. Lemercier Benard et Cie

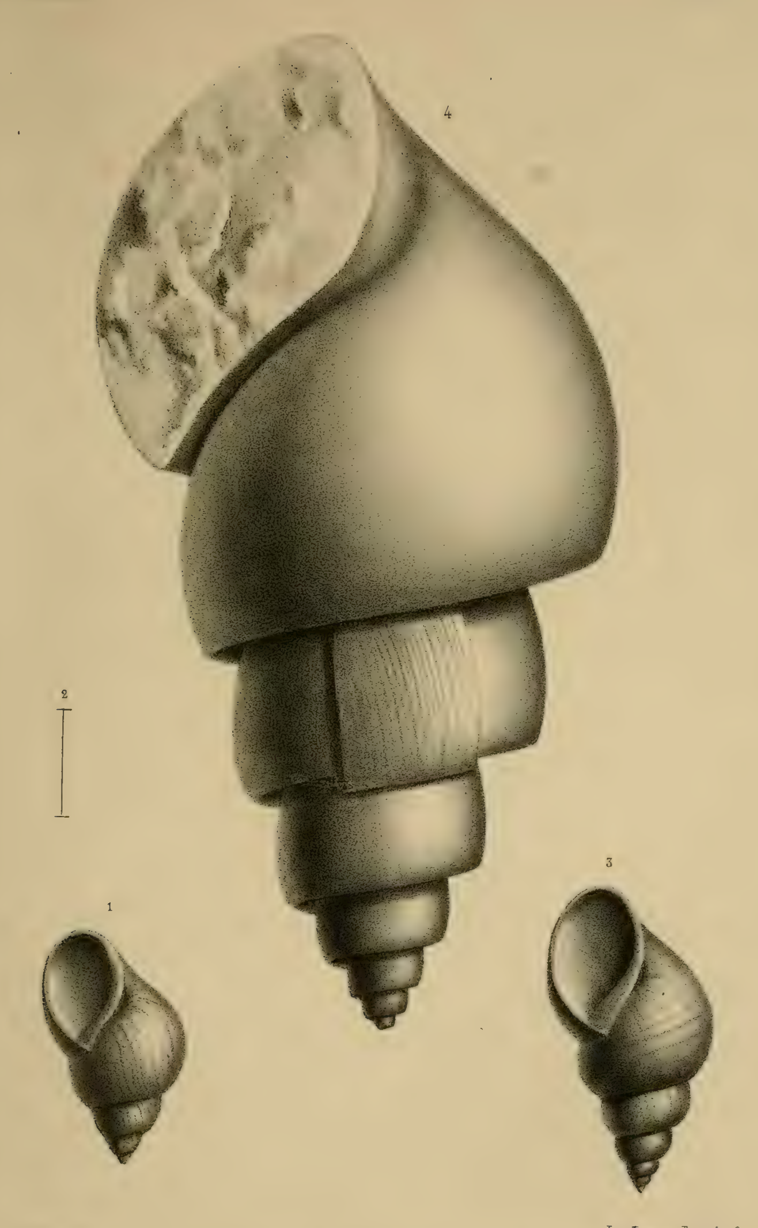
1.2. *Turbo Guerangeri, d'Orb. C.C.*
3.4. *T. ____ bicultratus, d'Orb. C.C.*
5.6. *T. ____ tricostatus, d'Orb. C.C.*
7.8. *T. ____ cretaceus, d'Orb. C.C.*
9.10. *Turbo cognacensis, d'Orb. C.C.*
11.14. *Operculum*
19.20. *Trochus Marçaisi, d'Orb. C.C.*



J. Delarue del.

Imp. Lemercier, Benard et C.

1. *Turbo royanus, d'Orb. c.c.*
2-3. *T.____ Mailleanus, d'Orb c.c.*
4-5. *T.____ Renauxianus, d'Orb. c.c.*



J. Delarue del.

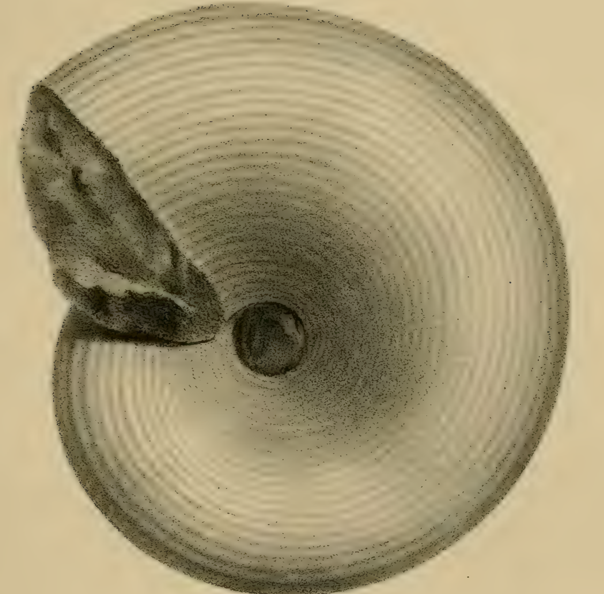
Imp. Lemercier Benard et C.

1.2. Phasianella neocomiensis, d'Orb. N.
3. P__________ gaultina, d'Orb. G.
4. P__________ supracretacea, d'Orb. C.C.



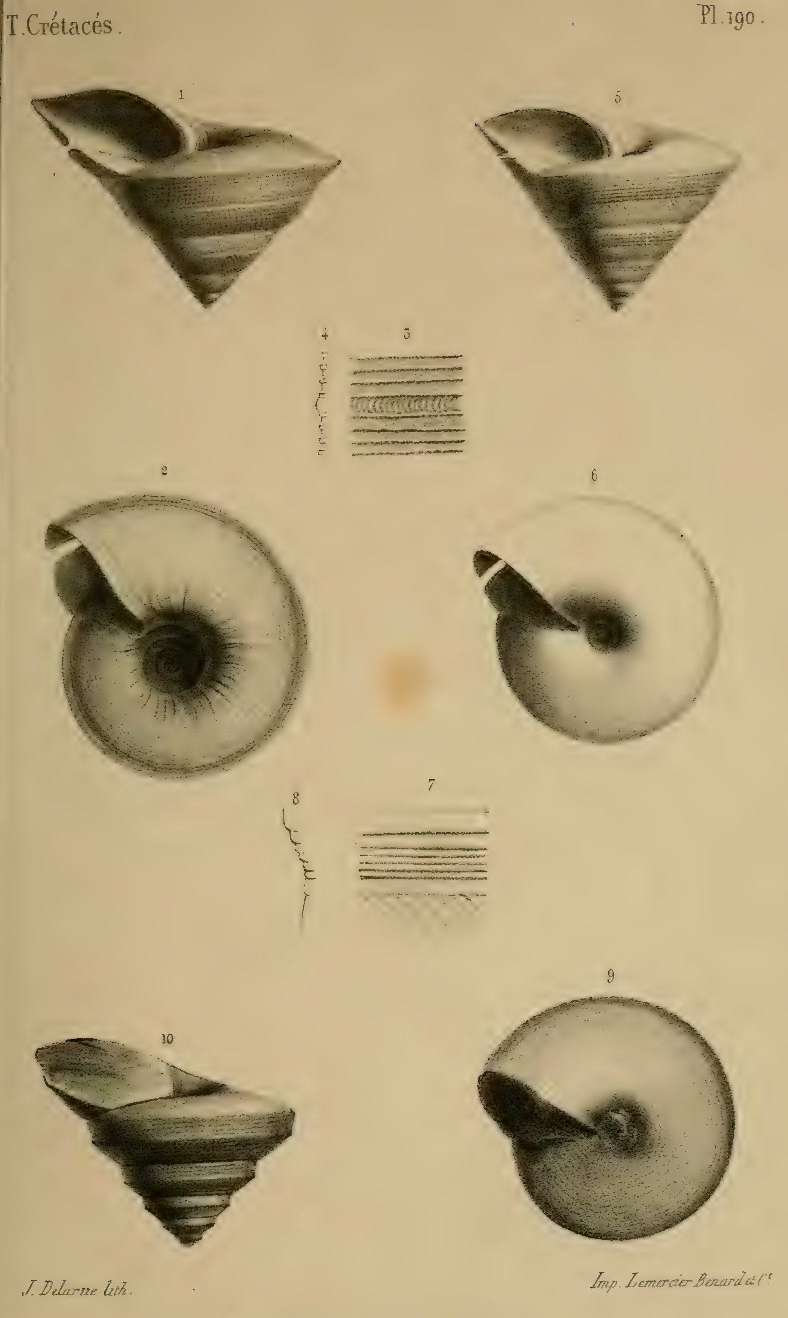
J. Delarue del. Imp. Lemercier Benard & C.

1-3. Phasianella ervyna, d'Orb. G.
4-7. Stomatia aspera, d'Orb. C.C.
8-12. Pleurotomaria neocomiensis, d'Orb. N.



J. Delarue del. Imp. Lemercier, Benard et C.

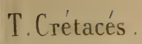
Pleurotomaria Failletteana, d'Orb. N.



J. Delarue lith.

Imp. Lemercier Benard et Cie

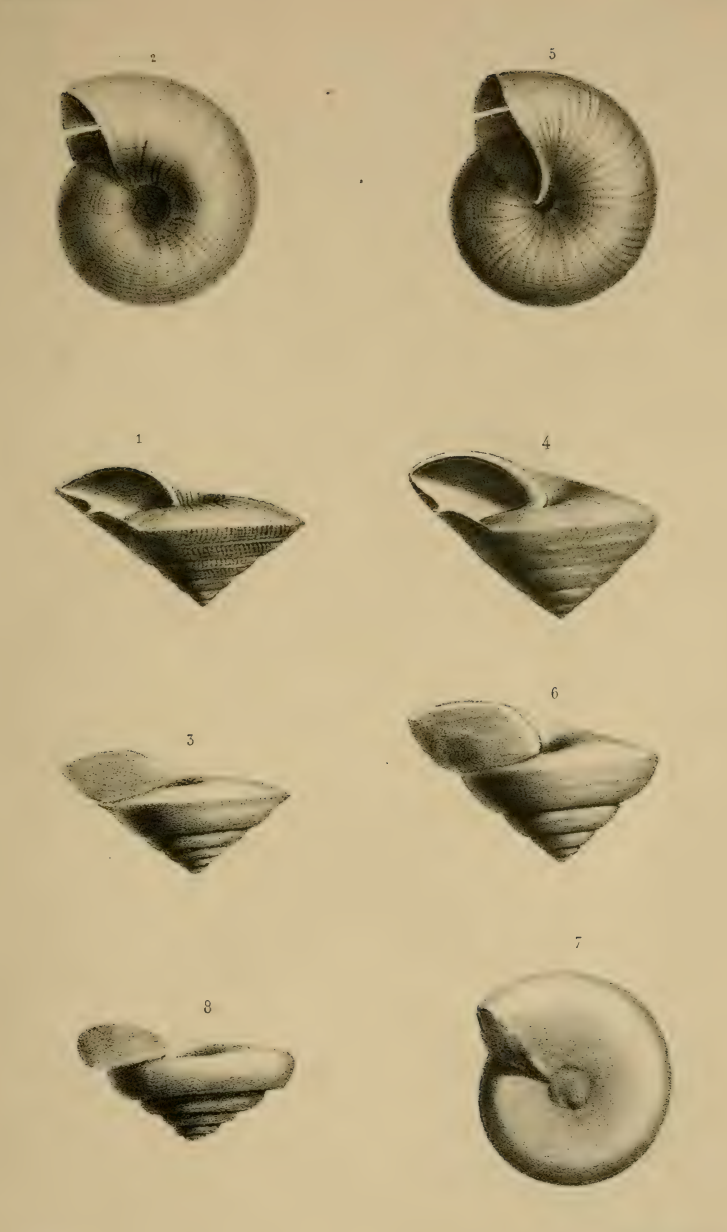
1-4. *Pleurotomaria elegans, d'Orb. N.*
5-8. *P. ——— Robineausi, d'Orb. N.*
9-10. *P. ——— provencialis, d'Orb. N.*



J. Delarue lith.

Imp. Lemercier Benard et Cie

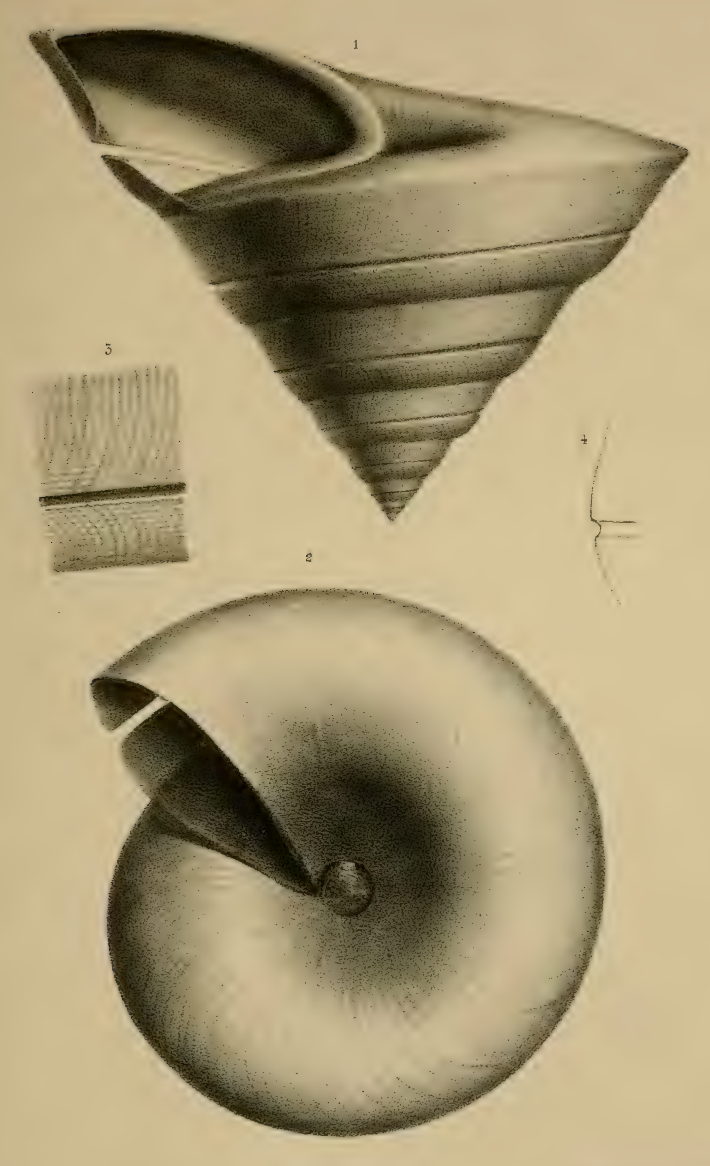
1-4. *Pleurotomaria Dupiniana*, d'Orb. N.
5-9. *P. ——— dimorpha*, d'Orb. G.
10-11. *P. ——— gaultina*, d'Orb. G.



J. Delarue lith.

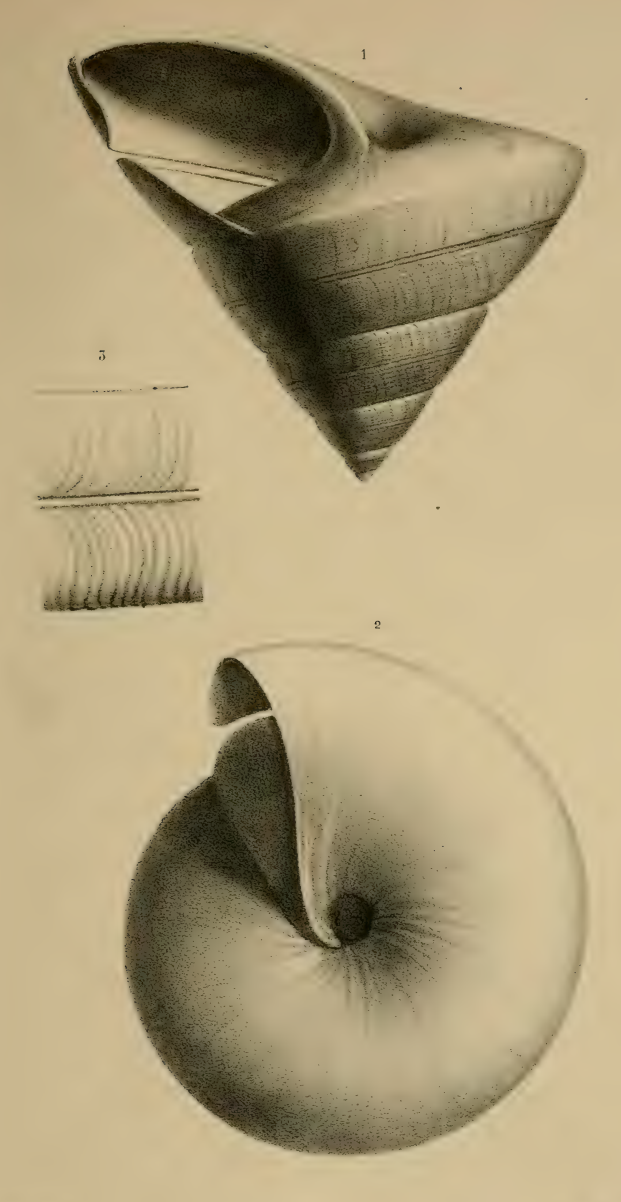
Imp. Lemercier Benard et C.

1-3. Pleurotomaria lima, d'Orb. G.
4-6. P. —— gurgitis, d'Orb. G.
7-8. P. —— rhodani, d'Orb. G.



J. Delarue lith.
Imp. Lemercier, Benard et C.

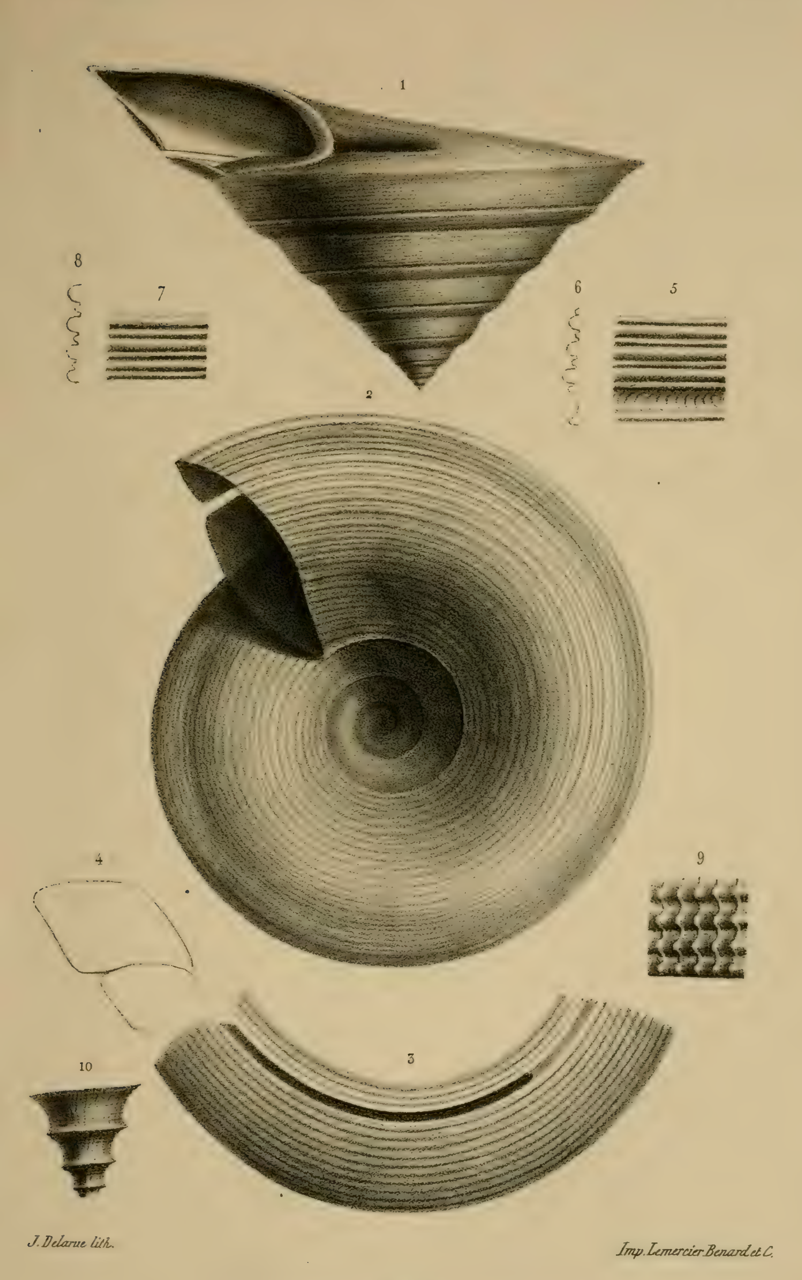
Pleurotomaria Delahayesi, d'Orb. C.C.



J. Delarue lith.

Imp. Lemercier, Benard et Ce

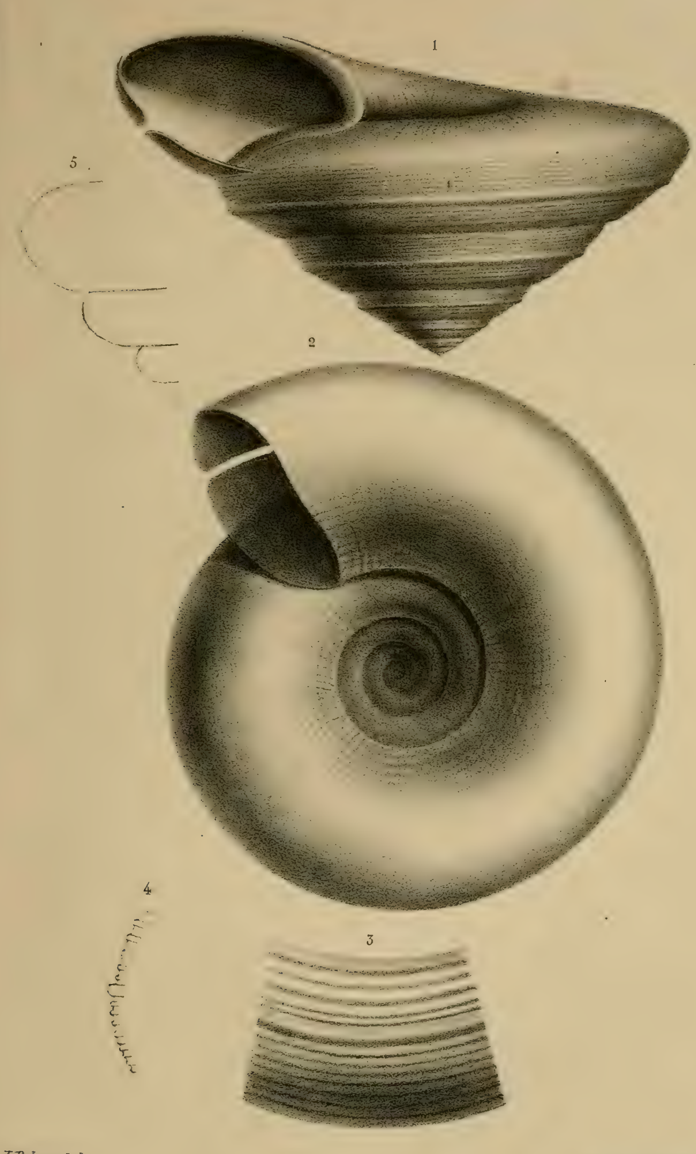
Pleurotomaria simplex, d'Orb. C.C.



J. Delarue lith.

Imp. Lemercier Benard et C.

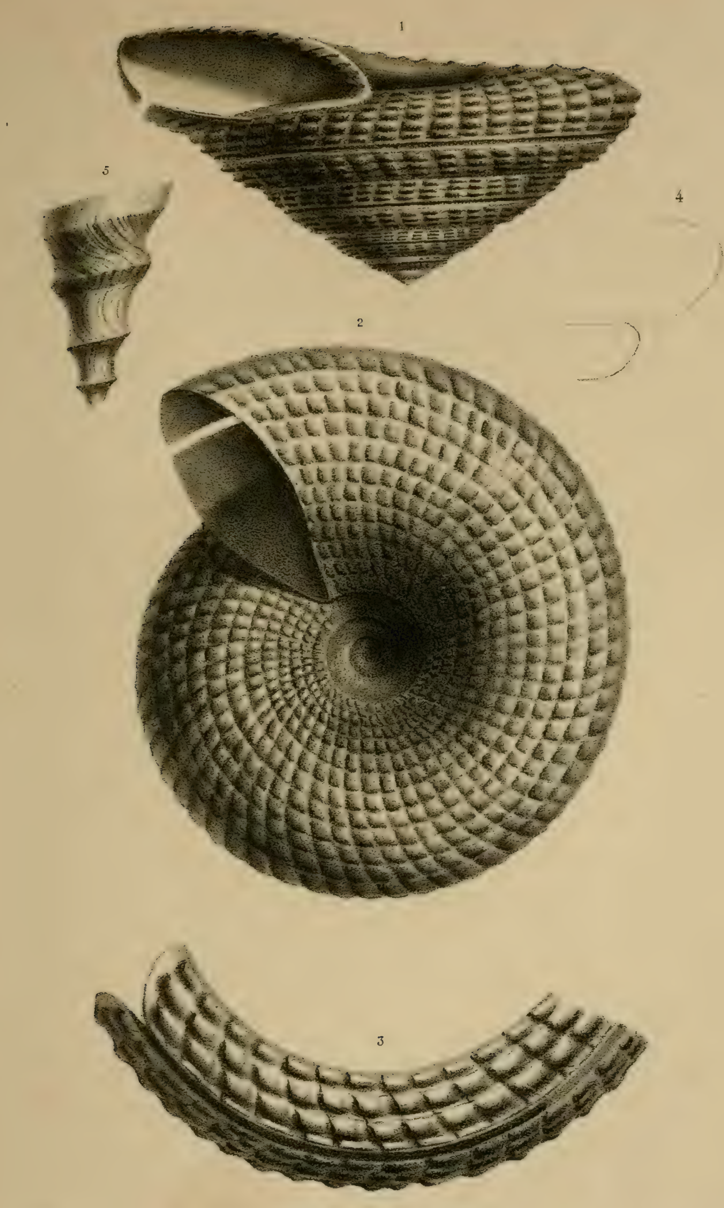
Pleurotomaria Mailleana, d'Orb. C.C.



J. Delarue lith.

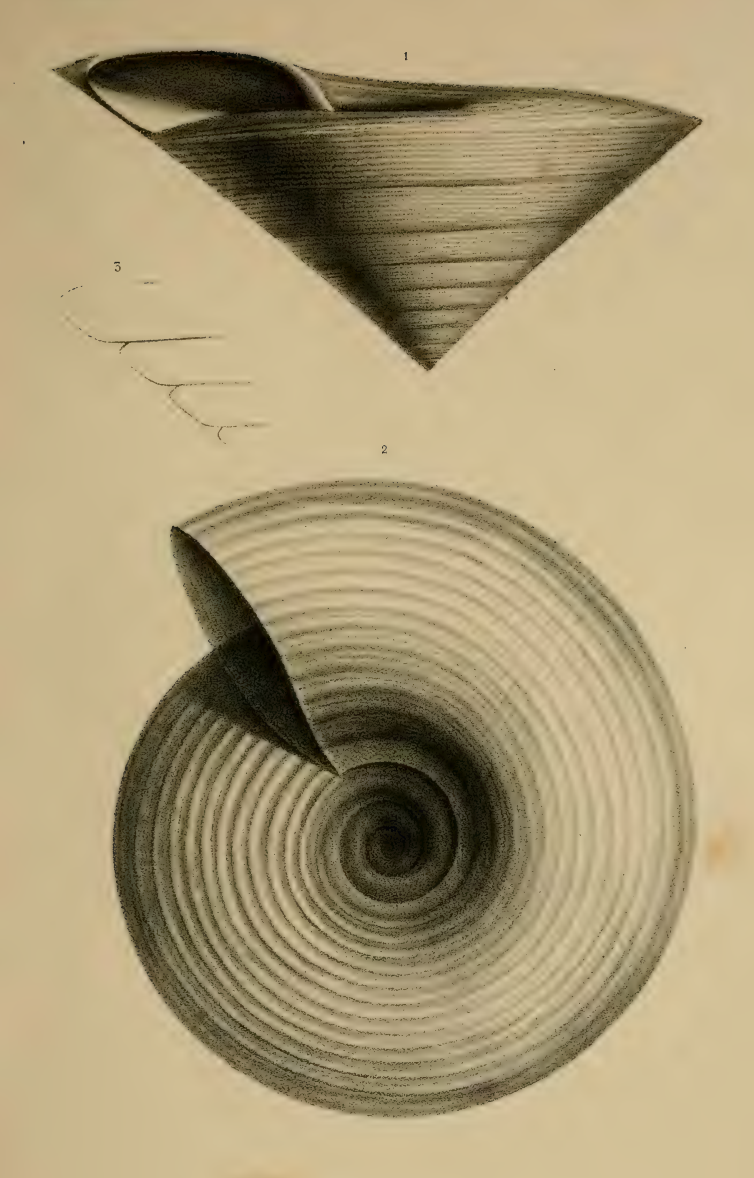
Imp. Lemercier Benard et C.e

Pleurotomaria perspectiva, Sowerby C.C.



J. Delarue lith.   Imp. Lemercier Benard et C.

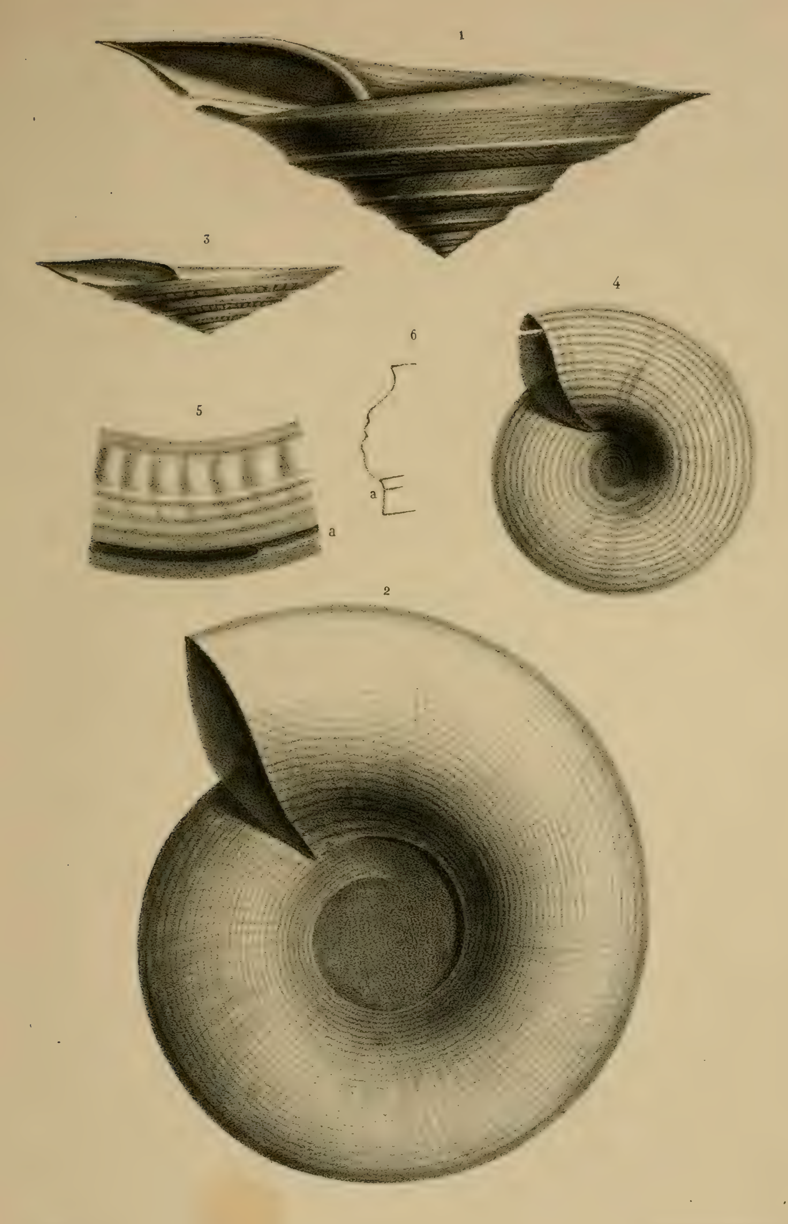
Pleurotomaria Galliennei, d'Orb. C.C.



J. Delarue lith.

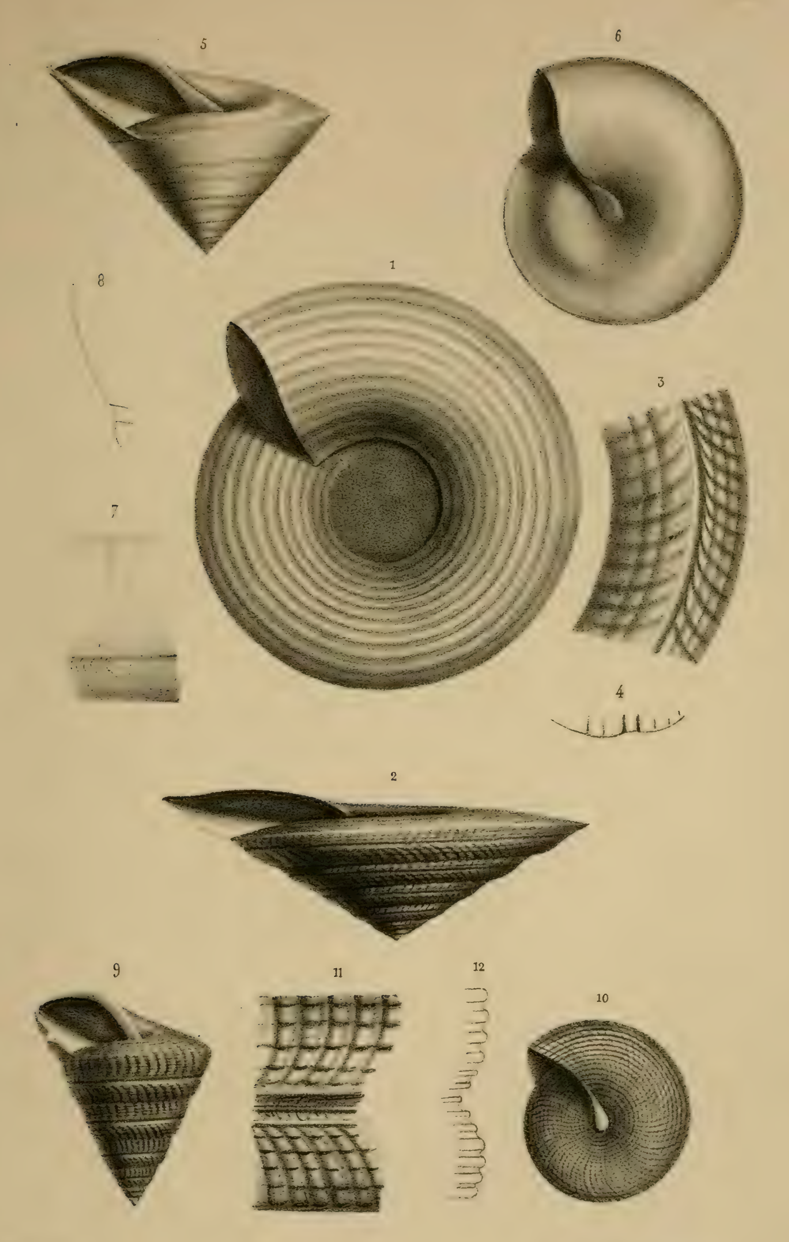
Im. Lemercier, Benard et Ce

Pleurotomaria santonensis, d'Orb. C.C.



J. Delarue lith. Im. Lemercier Benard et Cie

1-2. *Pleurotomaria formosa, Leymerie C.C.*
3-6. *P. ——— Moreausiana, d'Orb. C.C.*



J. Delarue lith.

Im. Lemercier Benard et Cie

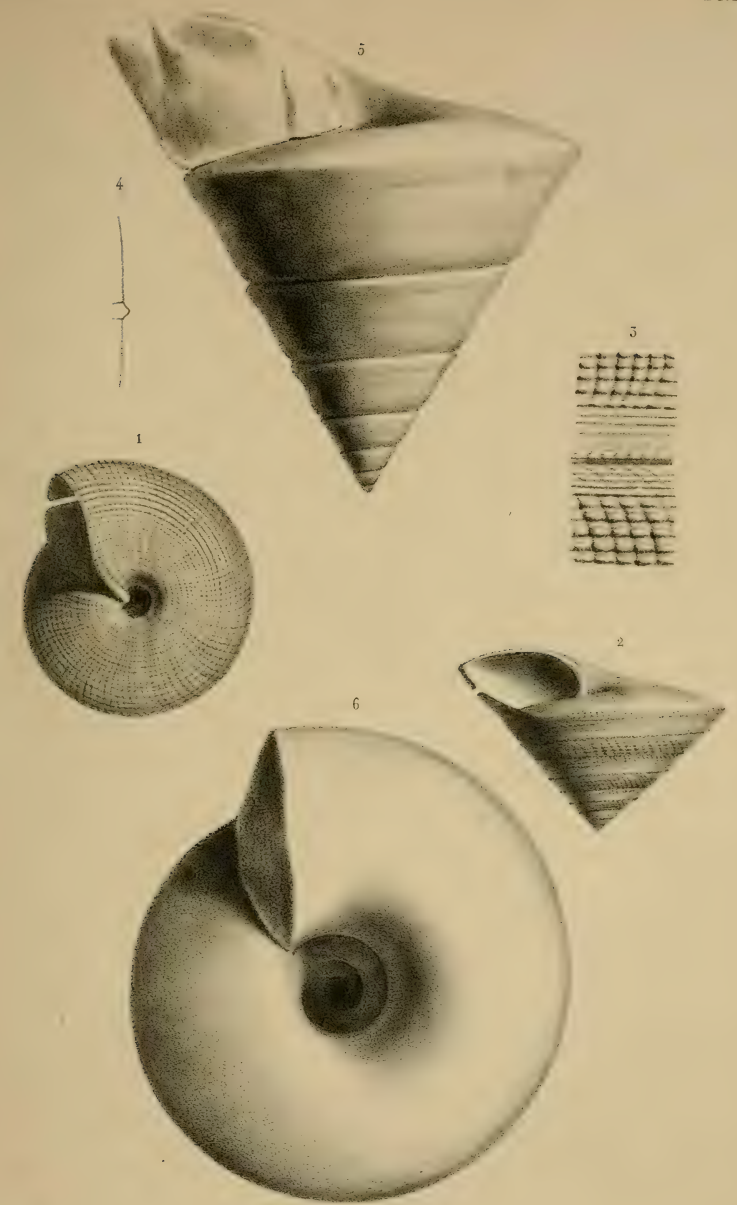
1.4. *Pleurotomaria secans, d'Orb. C.C.*
5.8. *P. ——— Requieniana, d'Orb. C.C.*
9.12. *P. ——— falcata, d'Orb. C.C.*



J. Delarue lith.

Im. Lemercier, Benard et Cie

1_4. Pleurotomaria Matheroniana, d'Orb. C.C.
5_6. P. ———— Fleuriausa, d'Orb. C.C.



J. Delarue lith.

Imp. Lemercier, Benard et C.

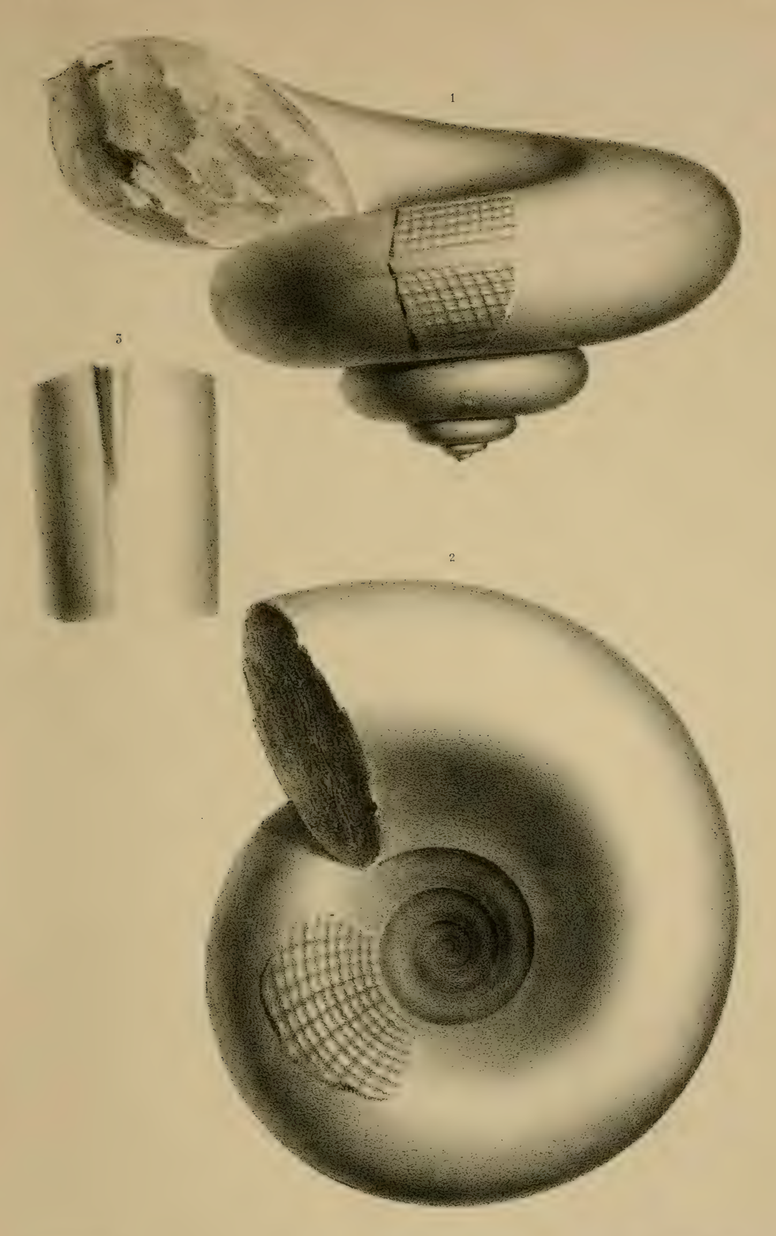
1-4. Pleurotomaria cassisiana, d'Orb. C.C.
5.6. P. ——— Marrotiana, d'Orb. C.C.



J. Delarue lith.

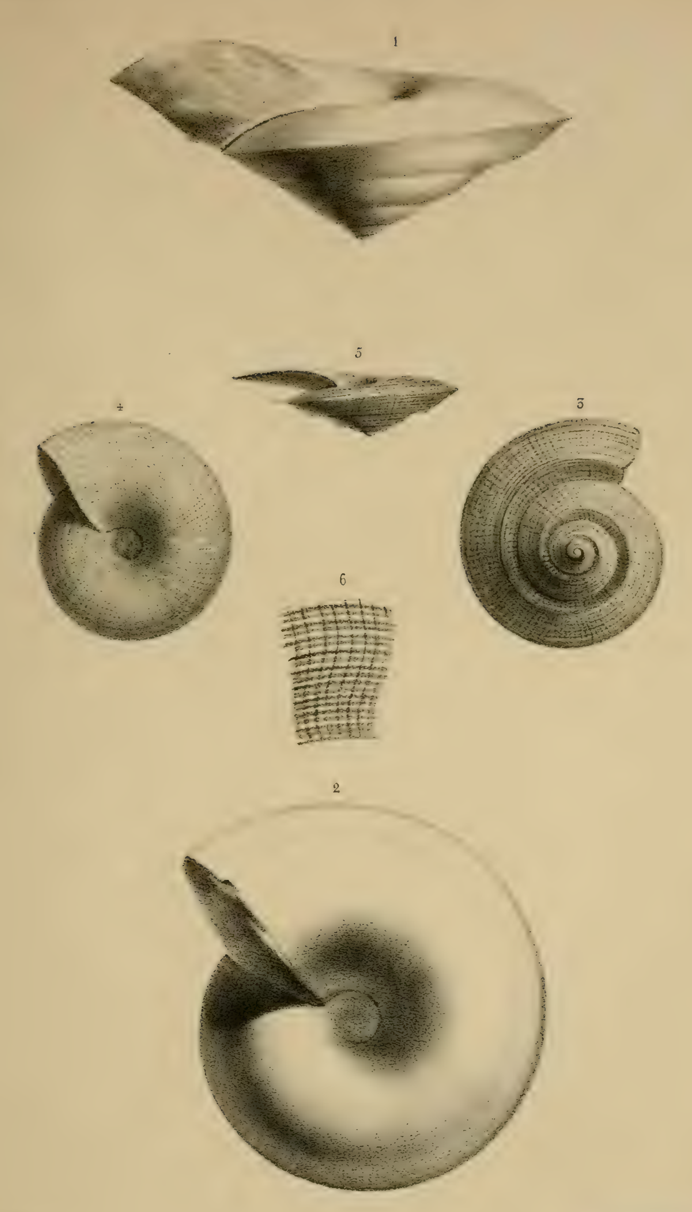
Imp. Lemercier, Benard et Ce

1_4. Pleurotomaria Brongniartiana, d'Orb. C.C.
5_6. P. ——————— royana, d'Orb. C.C.



J. Delarue lith.　　　　Imp. Lemercier Benard et C.ie

Pleurotomaria turbinoides, d'Orb. C.C.



J. Delarue lith. Imp. Lemercier Benard et Cie

1-2. *Pleurotomaria. Supra cretacea*, d'Orb. C.C.
3-5. *P.* ———— *Guerangeri*, d'Orb. C.C.



J. Delarue lith.

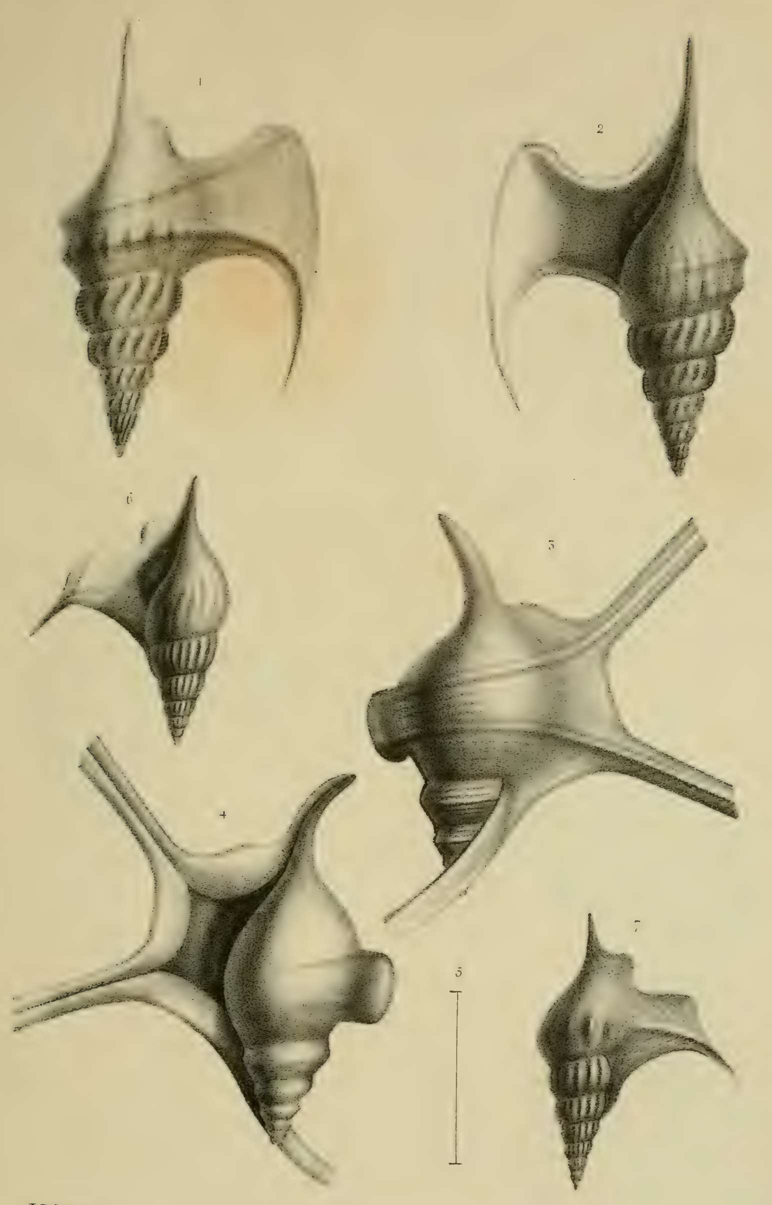
Imp. Lemercier Benard et Cie

1.3. *Rostellaria Dupiniana, d'Orb. N.*
4.5. ——— *Robinaldinus, d'Orb. N.*
6. *Rostellaria alpina, d'Orb. N.*
7.8. *R.* ——— *pyramidalis, d'Orb. N.*



J. Delarue lith. Imp. Lemercier Benard et Cie

1. Rostellaria Astieriana, d'Orb. N.
2. R. ——— carinata, Mantell. G.
3.4. R. ——— calcarata, Sowerby. G.
5.6. Rostellaria tricostata, d'Orb. G.
7.8. R. ——— carinella, d'Orb. G.



J. Delarue del.

Im. Lemercier Benard et C.

1.2. Rostellaria Parkinsoni, Sow. G.
3.5. Pterocera bicarinata, d'Orb. G.
6.7. Rostellaria simplex, d'Orb. G.



J. Delarue del.

Imp. Lemercier Benard et C.

1-2. Rostellaria ornata, d'Orb. C.C.
3-4. R. ——— Requieniana, d'Orb. C.C.

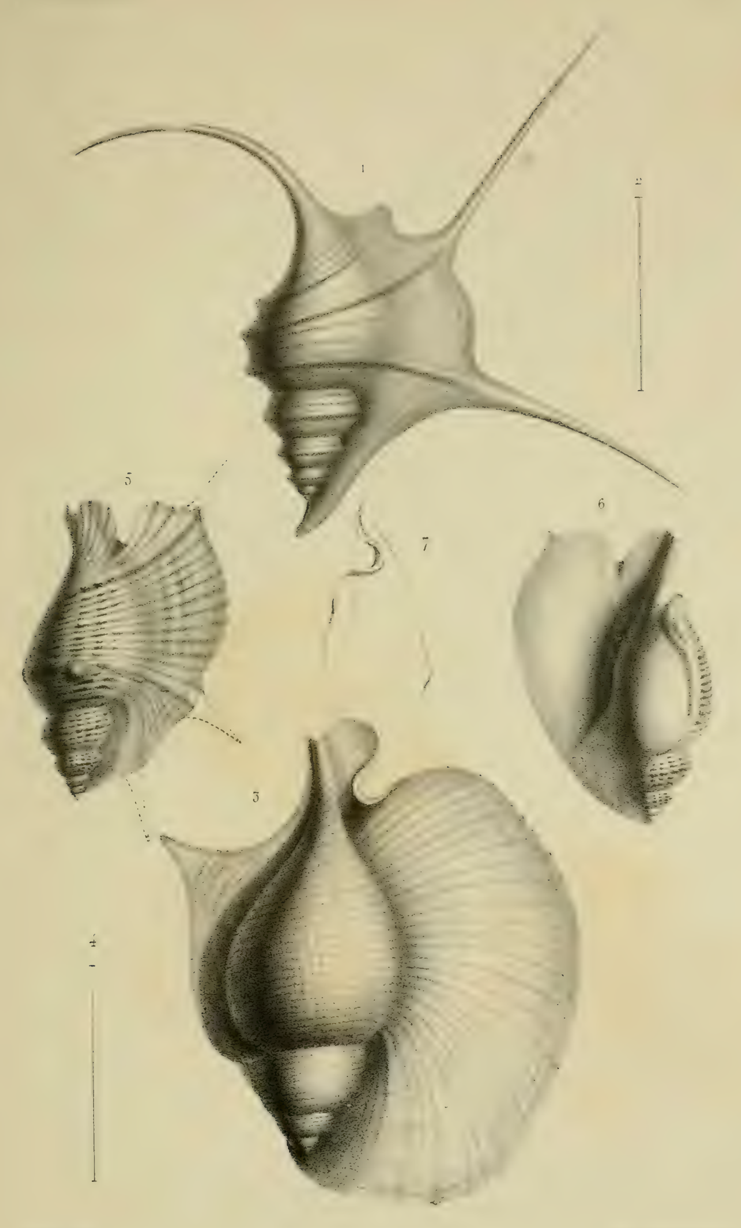


J. Delarue del.

Im. Lemercier Benard et C.

1. *Rostellaria pauperata, d'Orb. C.C.*
2. *R. ——— Mailleana, d'Orb. C.C.*
3. *R. ——— pyrenaica, d'Orb. C.C.*

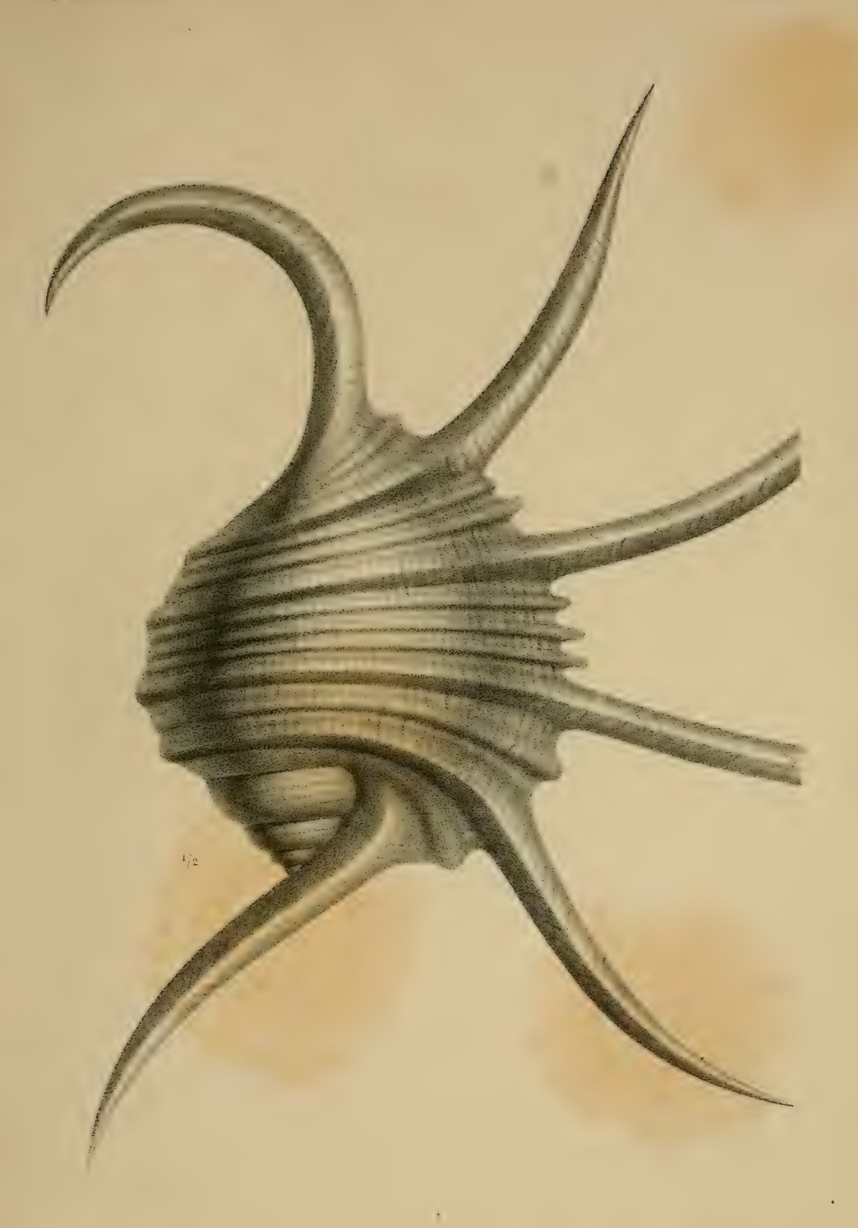
4-5 *Rostellaria inornata, d'Orb. C.C.*
6-7. *R. ——— varicosa, d'Orb. C.C.*



J. Delarue del.

Imp. Lemercier Benard et C.

1.2. Pterocera Moreausiana, d'Orb. N.
3.4. P. ——— speciosa, d'Orb. N.
5.7. P. ——— Dupiniana, d'Orb. N.



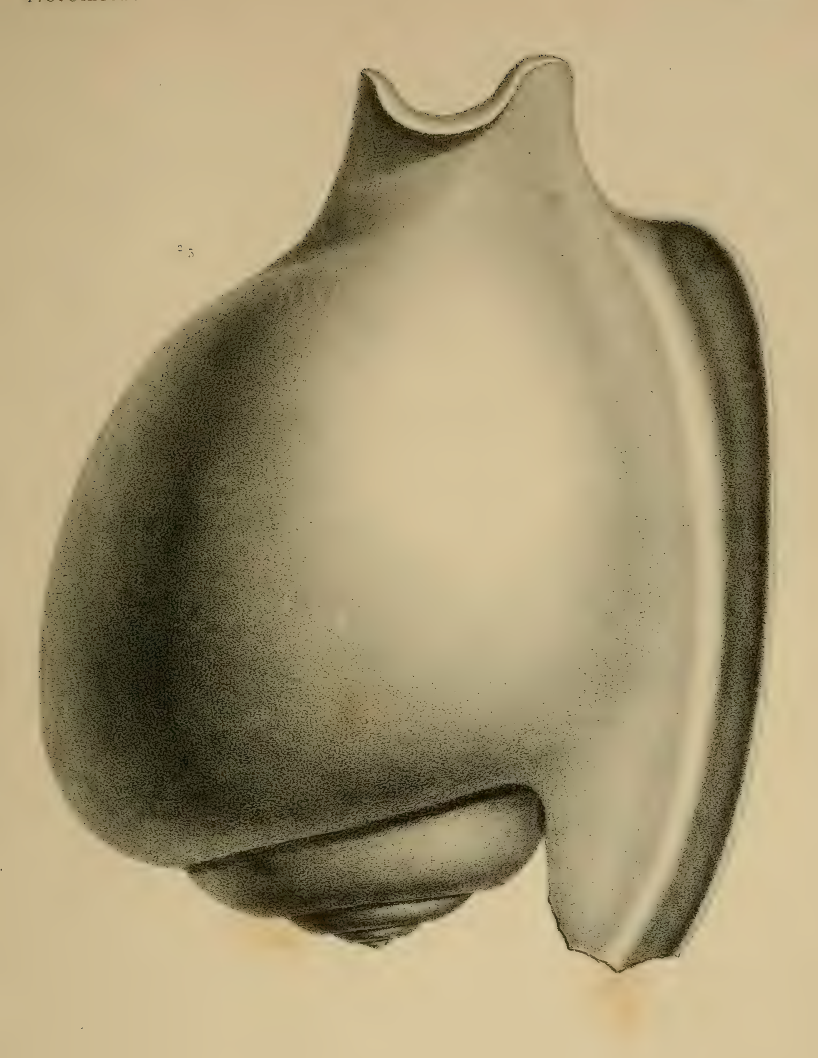
J. Delarue del. Im. Lemercier, Benard et C.

Pterocera Pelagi, N.



J. Delarue del. Im. Lemercier Benard et C.

Pterocera Beaumontiana d'Orb. N.



J. Delarue del.

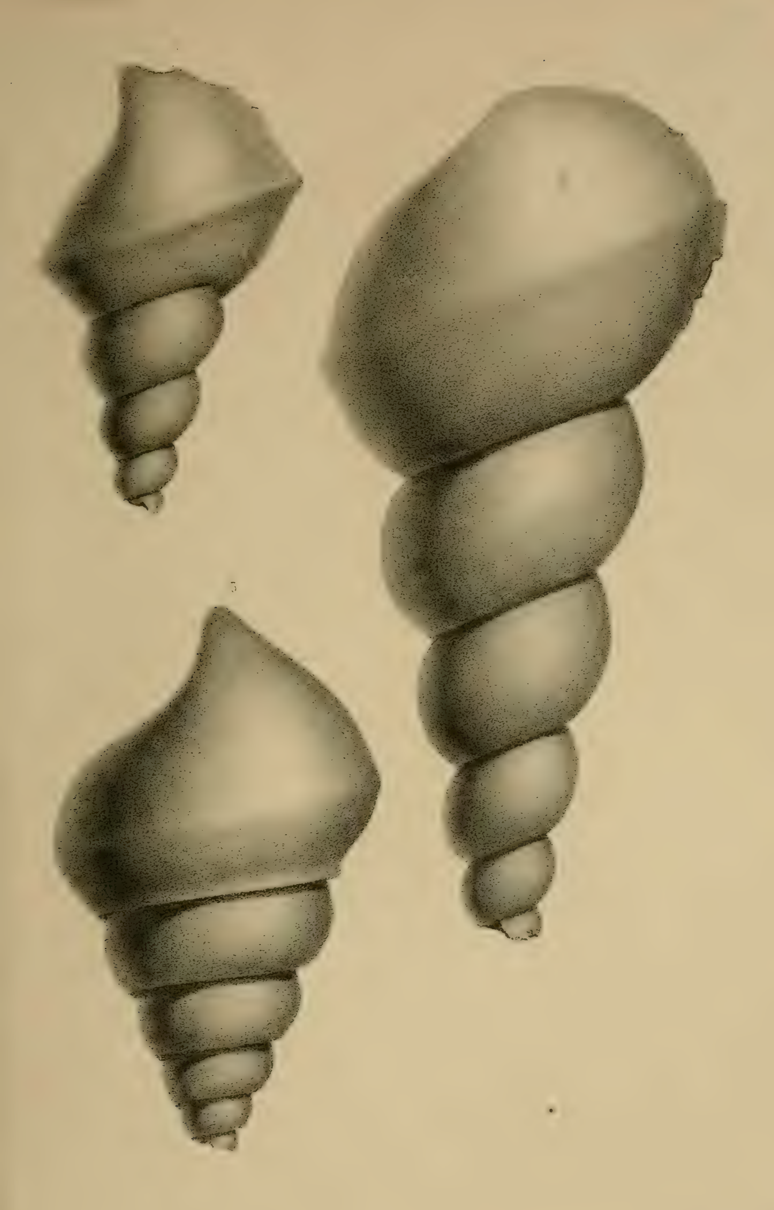
Pterocera inornata, d'Orb. C.C.

2/3



J. Delarue del. Im. Lemercier Benard et C.

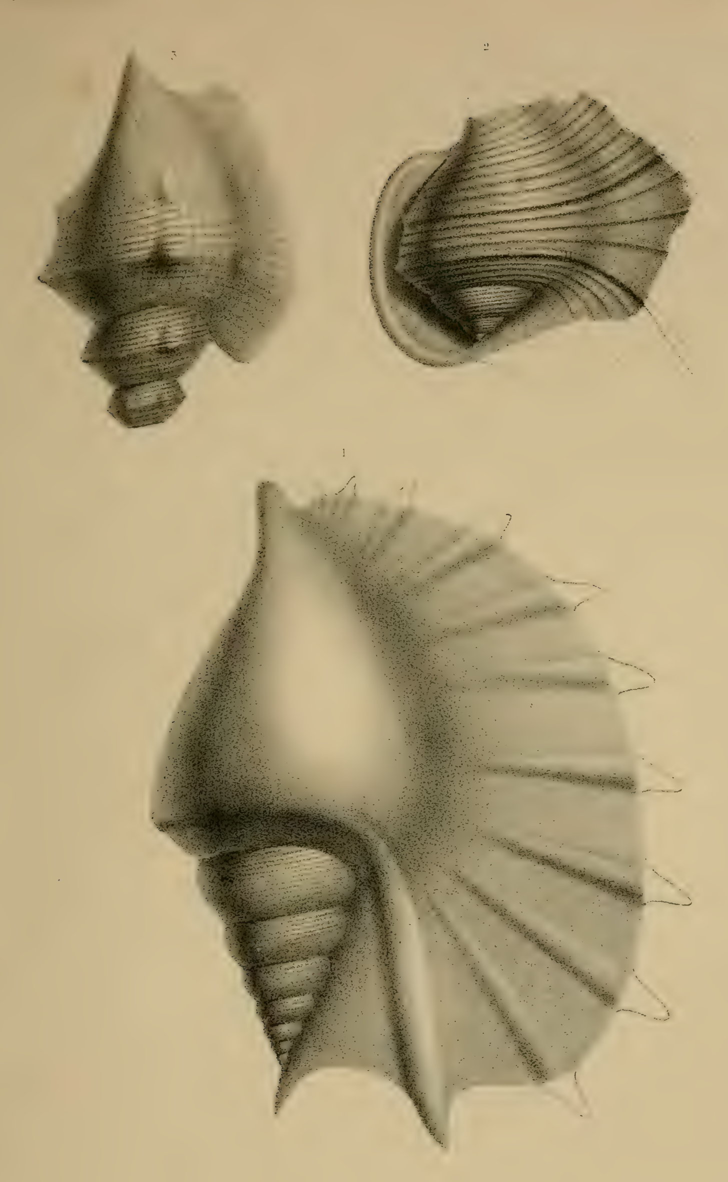
Pterocera incerta, d'Orb, C.C.



J. Delarue d.

1. 2. *Pterocera Emerici, d'Orb.* N.

3. 4. —— *[illegible], d'Orb.* c.c.



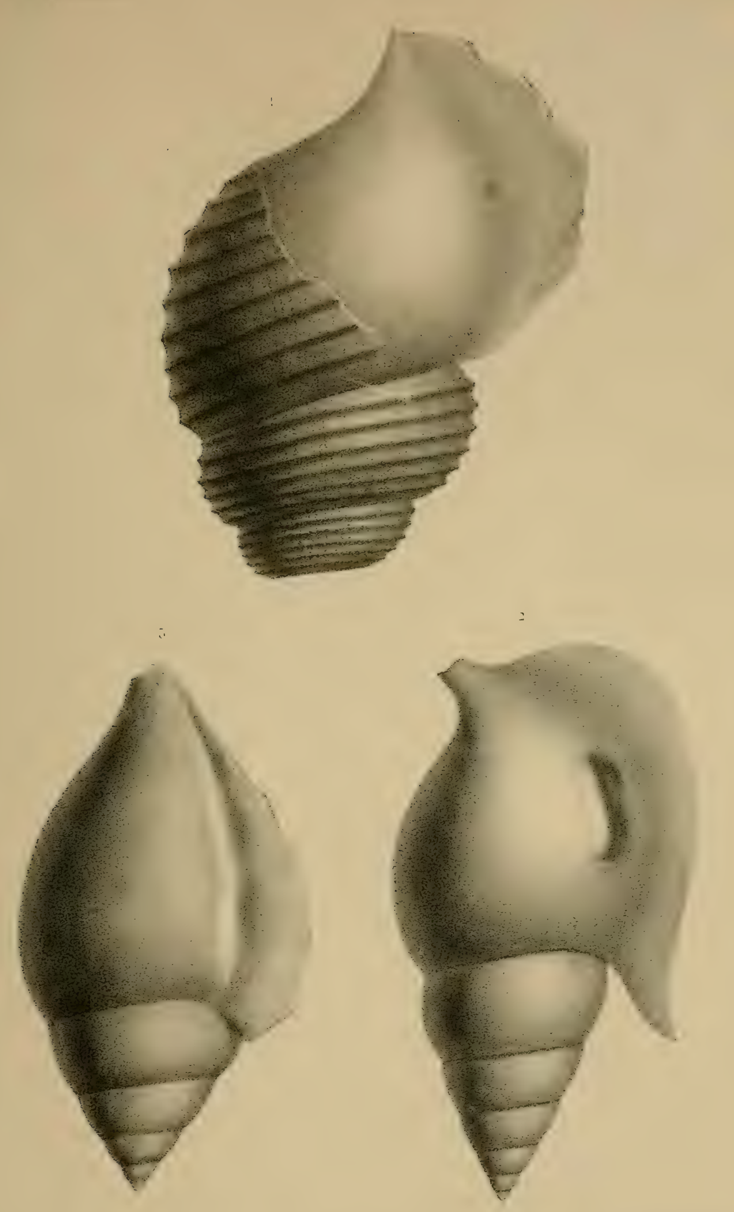
J. Delarue del.

Imp. Lemercier Benard et C.

1. *Pterocera polycera*, d'Orb. C.C.

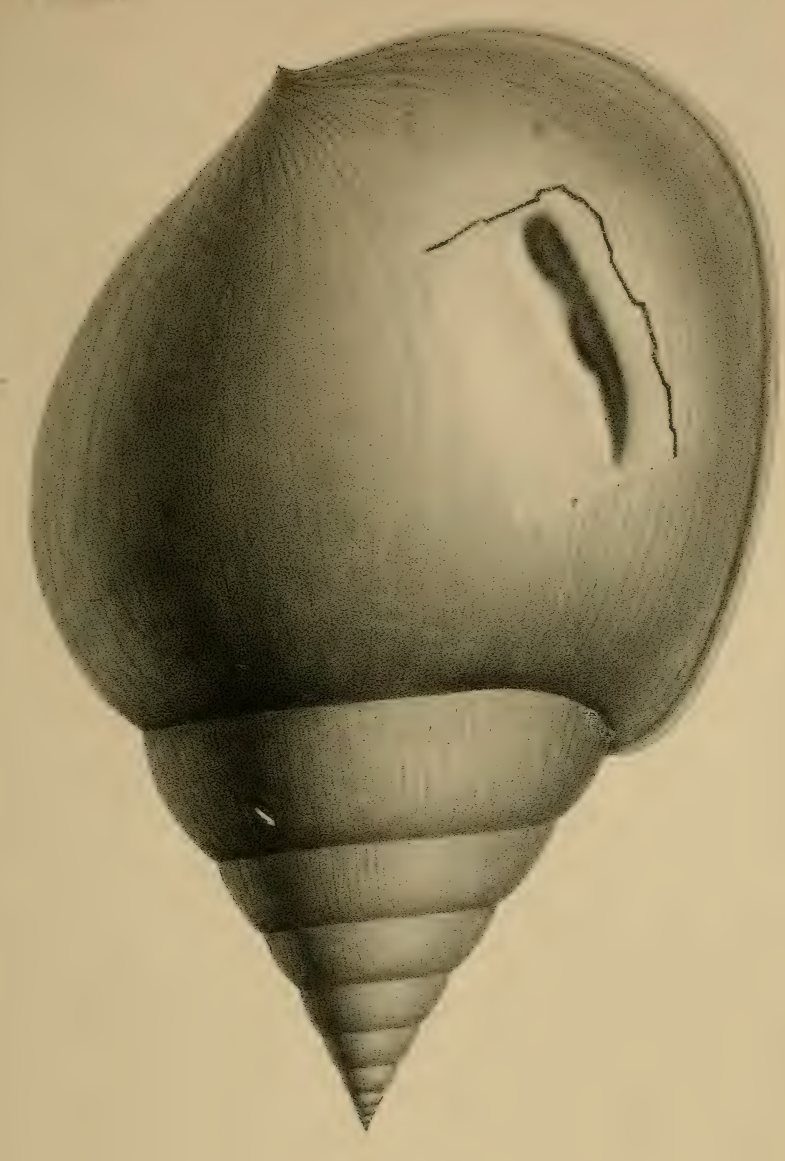
2. *P.——— marginata*, d'Orb. C.C.

3. *Strombus Dupinianus*, d'Orb. G.

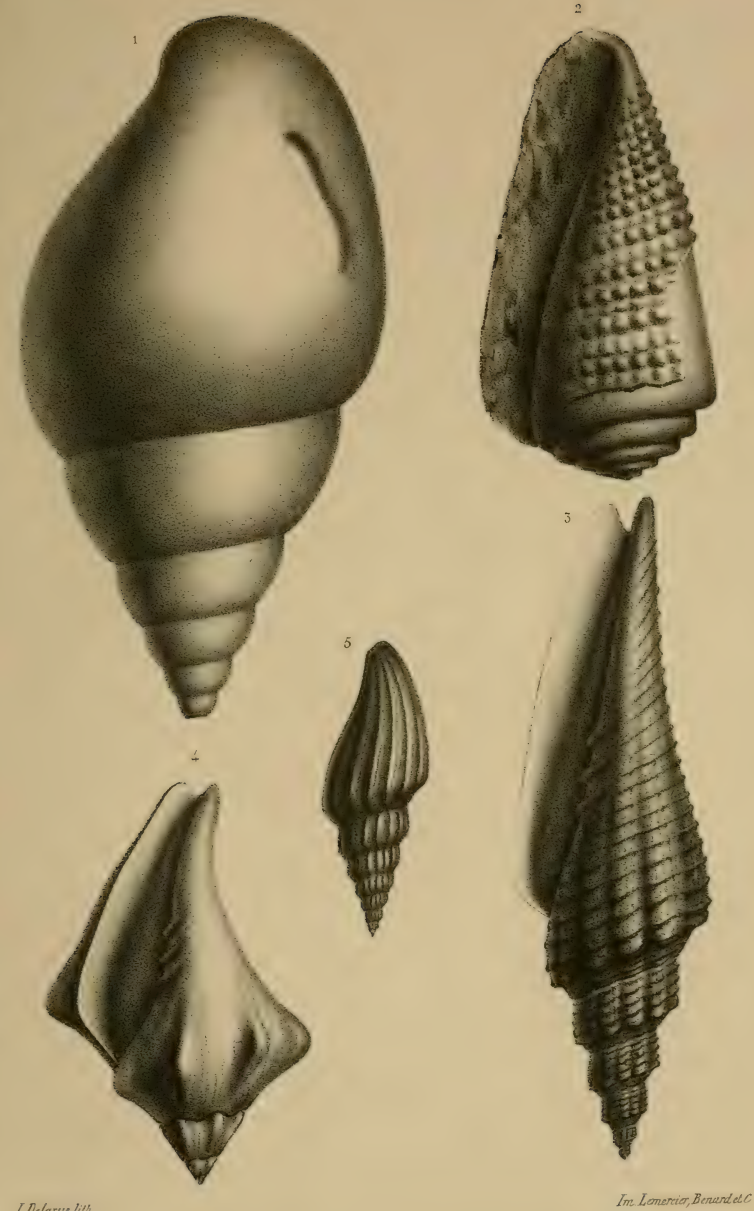


J. Delarue del.   Im. Lemercier, Benard et C.

1. *Pterocera inflata*, d'Orb. C.C.
2. *Pterodonta elongata*, d'Orb. C.C.
3. *P. ——— ovata*, d'Orb. C.C.



Pterodonta inflata d'Orb.



J. Delarue lith.

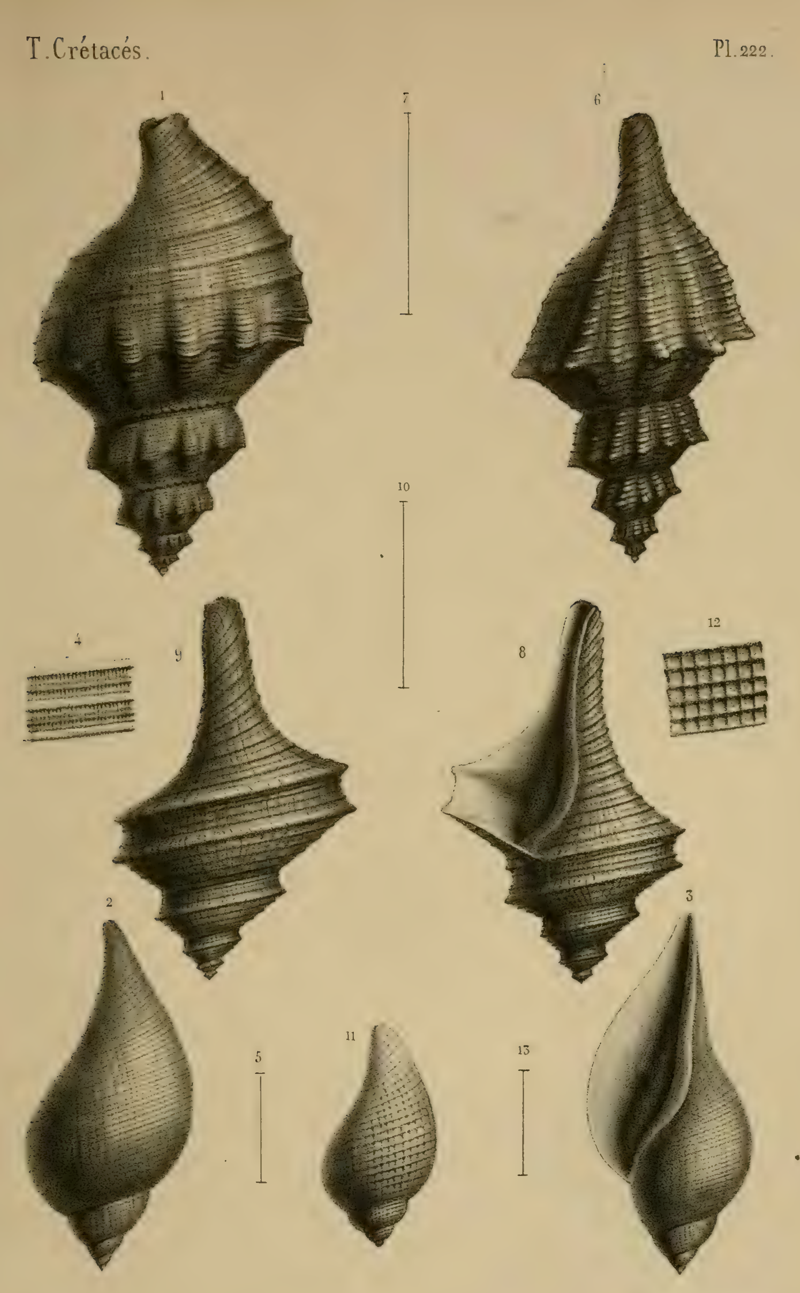
Im. Lemercier, Benard et C.

1. Pterodonta intermedia, d'Orb. C.C.
2. Conus tuberculatus Dujardin. C.C.
3. Voluta elongata, Sowerby C.C.
4. Voluta Requieniana. d'Orb. C.C.
5. V.____ Gasparini, d'Orb. C.C.



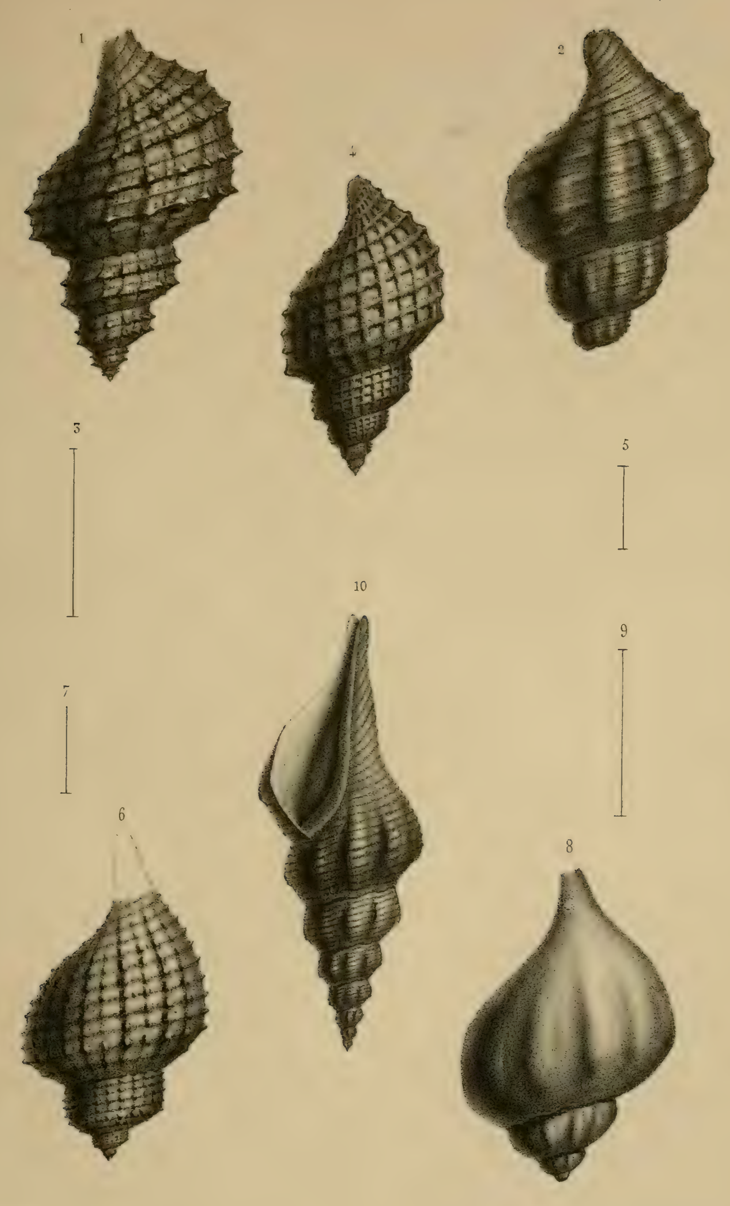
J. Delarue lith. Im. Lemercier Benard et

1. 2. Voluta Guerangeri d'Orb. C.C.
3. V. —— Renauxiana, d'Orb. C.C.
4. Voluta Lahayesi, d'Orb. C.C.
5. Mitra cancellata, Sowerby. C.C.



Delarue lith. Im. Lemercier, Benard et C.

1. *Fusus neocomiensis*, d'Orb. N.
2. 5. *F. — infracretaceus*, d'Orb. N.
6. 7. *F. — Dupinianus*, d'Orb. G.
8. 10. *Fusus albensis*, d'Orb. G.
11. 13. *F. ornatus*, d'Orb

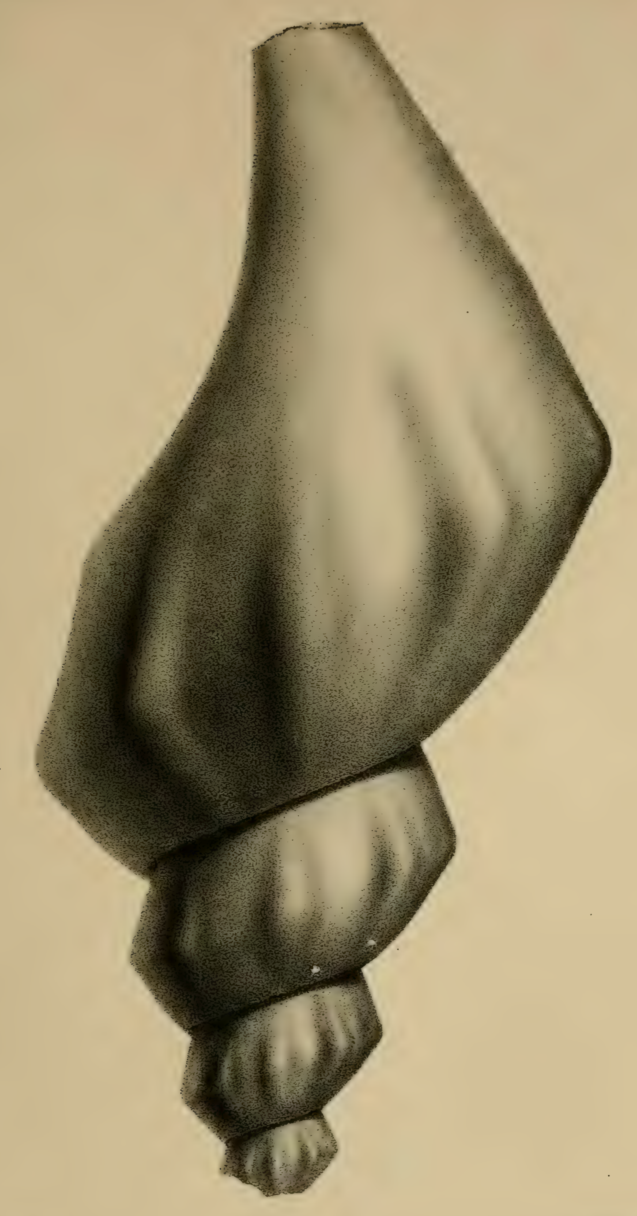


J. Delarue lith.

Im. Lemercier Benard et C.

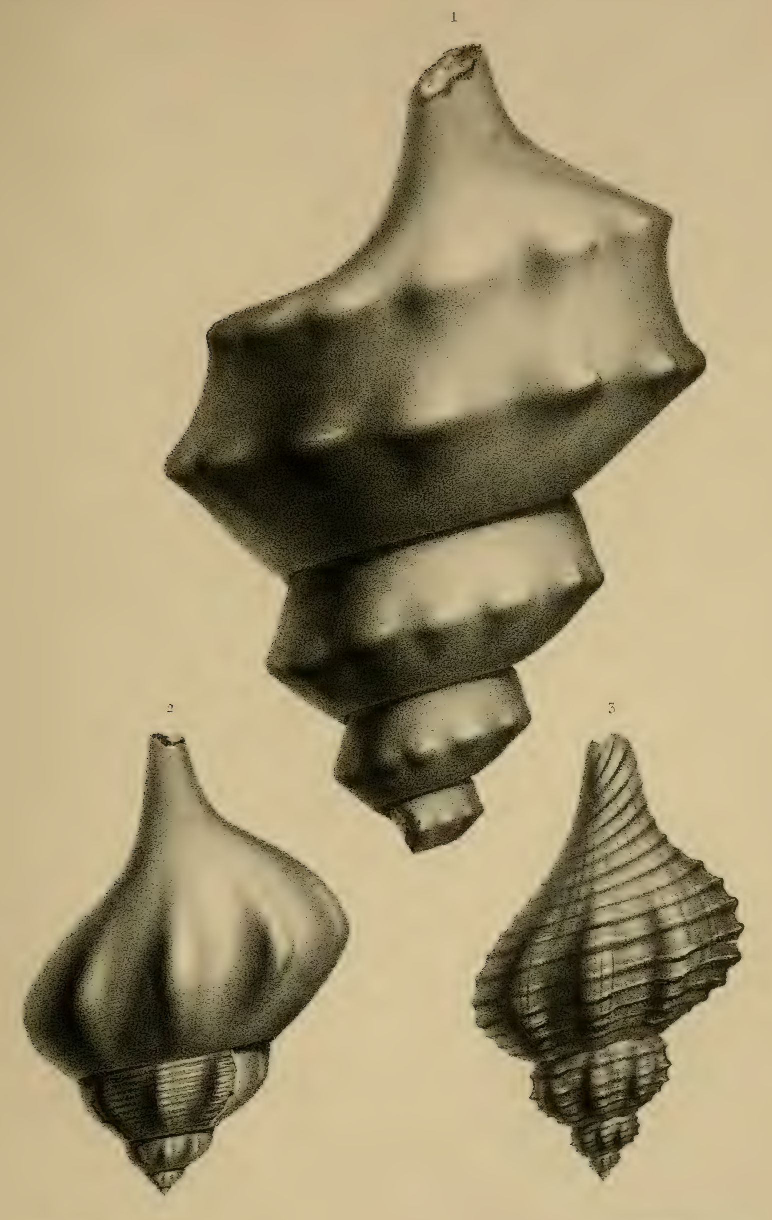
1. *Fusus rusticus, Fitton. G.*
2.3. *F.___ Itierianus, d'Orb.*
4.5. *F.___ elegans, d'Orb.*

6.7. *Fusus Vibraycanus, d'Orb. G.*
8.9. *F.___ Clementinus, d'Orb. G.*
10. *F.___ Renauxianus, d'Orb. C.C.*



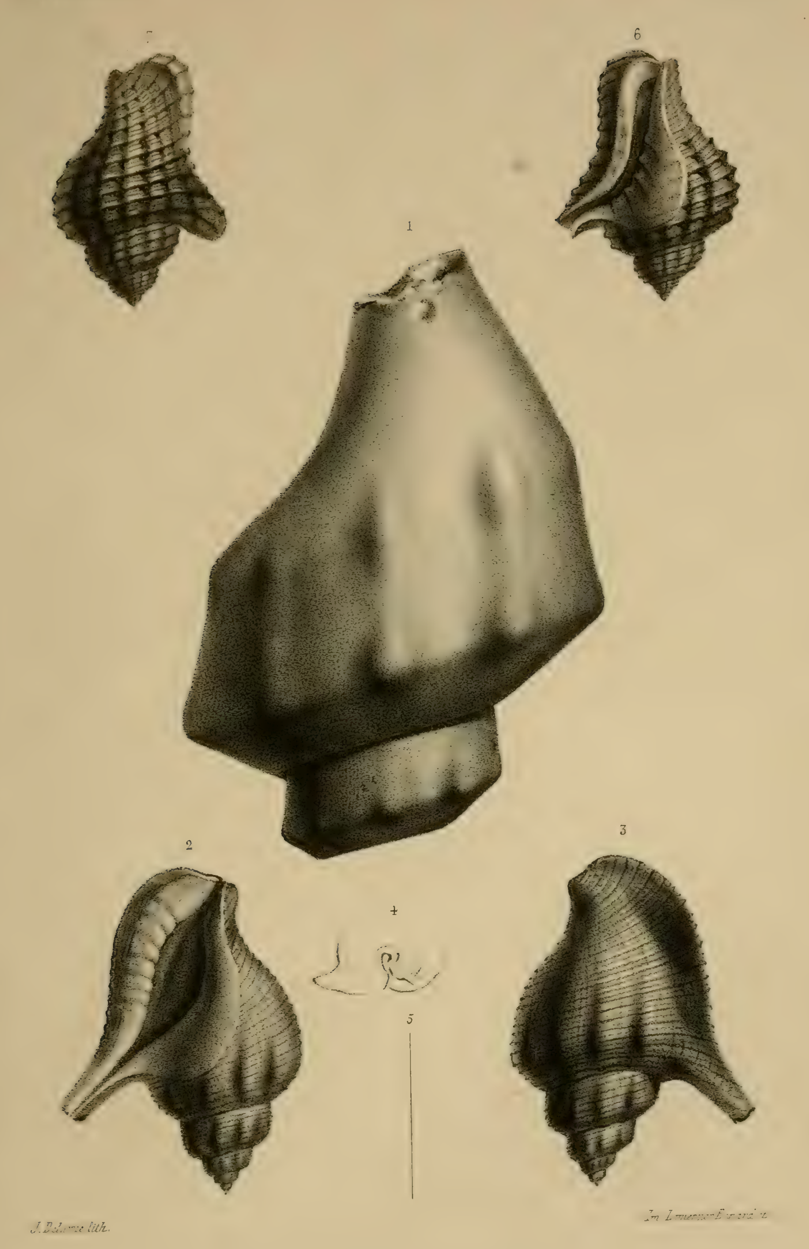
J. Delarue lith. Imp. Lemercier Benard et C.

Fusus Espaillaci, d'Orb. (C.



J. Delarue lith. Im. Lemercier Benard et C.

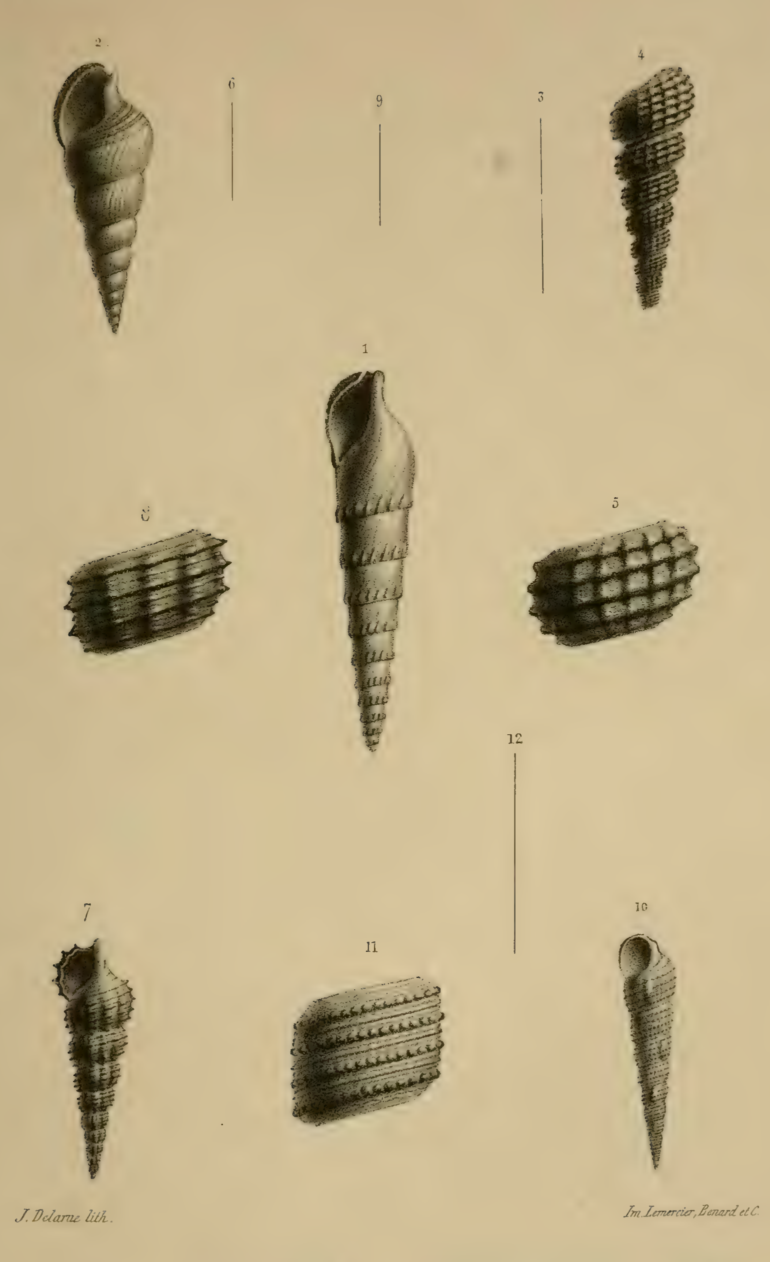
1. *Fusus turritellatus, d'Orb. C.C.*
2. *F. —— Marrotianus, d'Orb. C.C.*
3. *F. —— Requienianus, d'Orb. C.C.*



J. Delarue lith.

Im. Lemercier Benard

1. *Fusus Fleuriausus, d'Orb. C.C.*
2.5. *Colombellina monodactylus, d'Orb. N.*
6.7. *C. ——— ornata, d'Orb. C.C.*

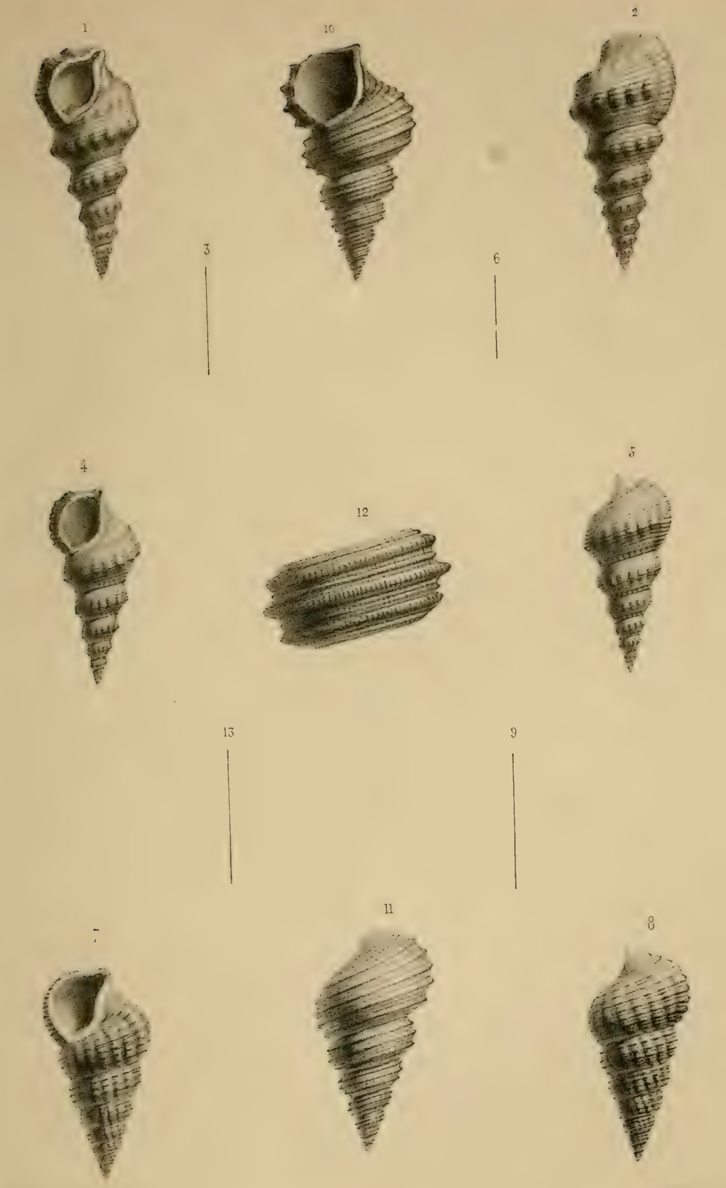


1. Cerithum terebroides, d'Orb. N.
2.3. C. ——— marollinum, d'Orb. N.
4.6. C. ——— Dupinianum, d'Orb. N.
7.9. Cerithum albensis, d'Orb. N.
10.12. C. ——— Philipsii, Leymerie N.

1 2 4 3 6 11 5 12 10 13 8 9 7

J. Delarue lith. Im. Lemercier Benard et C.

1.2. *Cerithium Clementinum, d'Orb. N.*
4.6. *C. ——— Gaudryi, d'Orb. N.*
7.10. *C. ——— nassoides, d'Orb. N.*
11.13. *C. ——— Cornuelianum, d'Orb. A.*



J. Delarue lith.

Im. Lemercier Benard et C.

1.3. Cerithium aptiense, d'Orb. A.
4.6. C. _____ subspinosum, Desh. G.
7.9. C. _____ Lallierianum, d'Orb. G.
10.13. C. _____ Vibrayeanum, d'Orb. G.



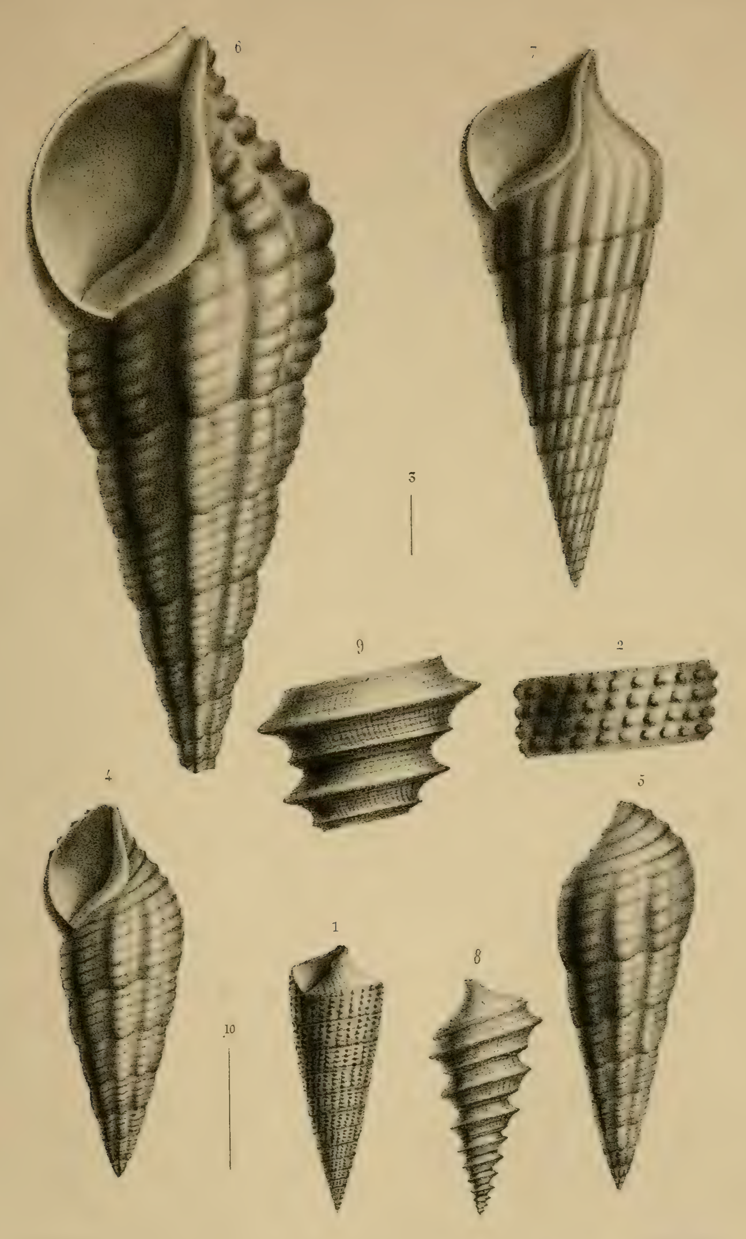
J. Delarue lith. Im. Lemercier Benard et C.

1.3 *Cerithium Eroynum*, d'Orb. G.
4.6 *C. ——— tectum*, d'Orb. G.
7.9 *C. ——— trimonile*, Michel. G.
10.11 *C. ——— ornatissimum* Desh. G.
12. *C. ——— excavatum*, d'Orb. G.



Delarue lith. Im. Lemercier Benard et C.

1. *Cerithium ataxense, d'Orb. C.C.*
2. *C.______ Renauxianum, d'Orb. C.C.*
3.4. *C.______ peregrinorsum, d'Orb. C.C.*
5.6. *C.______ Guerangeri, d'Orb. C.C.*
7.8. *C.______ gallicum, d'Orb. C.C.*



J. Delarue lith. Imp. Lemercier.

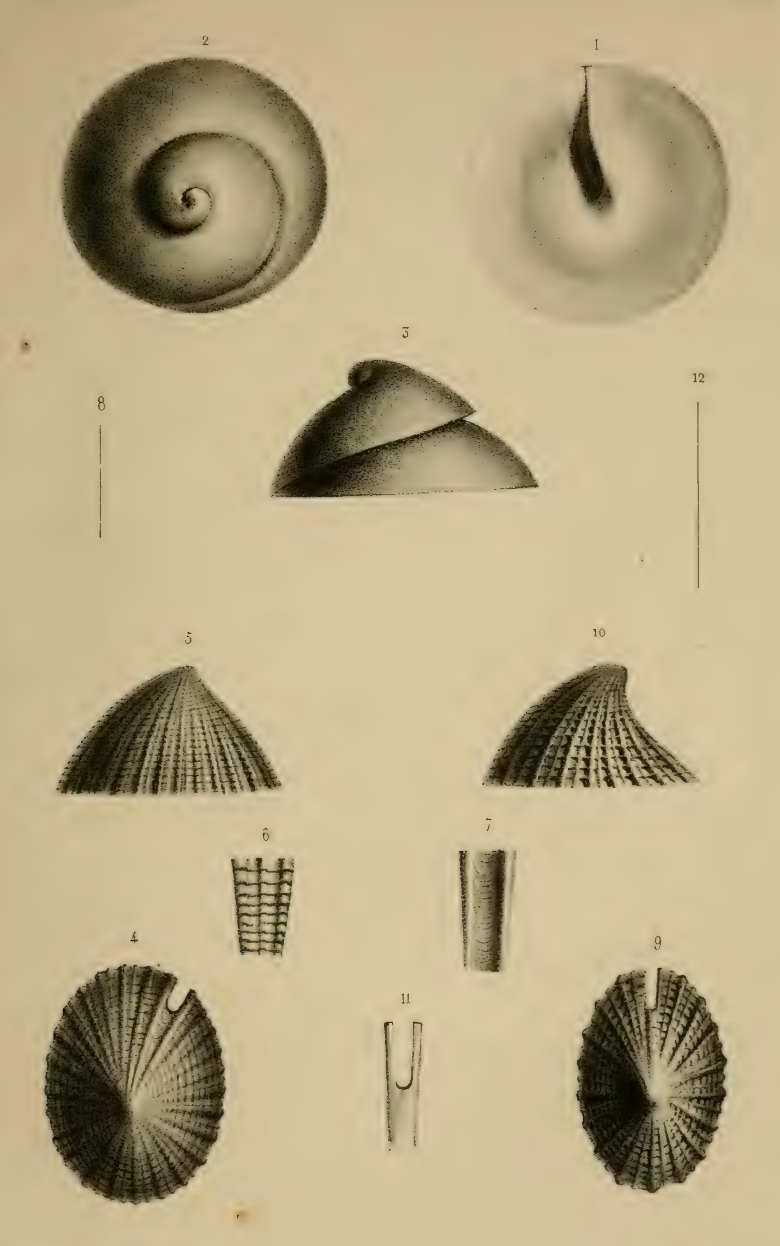
1.3. Cerithium limæforme, d'Orb. C.C.
4.5. C. ——— Requienianum, d'Orb. C.C.
6. C. ——— Prosperianum, d'Orb. C.C.
7. C. ——— Matheronii, d'Orb. C.C.
8.10. C. ——— neocomiensis, d'Orb. N.



J. Delarue lith. Imp. Lemercier

1.2. *Buccinum gaultinum*, d'Orb. G.
3. *Cerithium provinciale*, d'Orb. C.C.
4. C. ——— *pustulosum*, Sow. C.C.

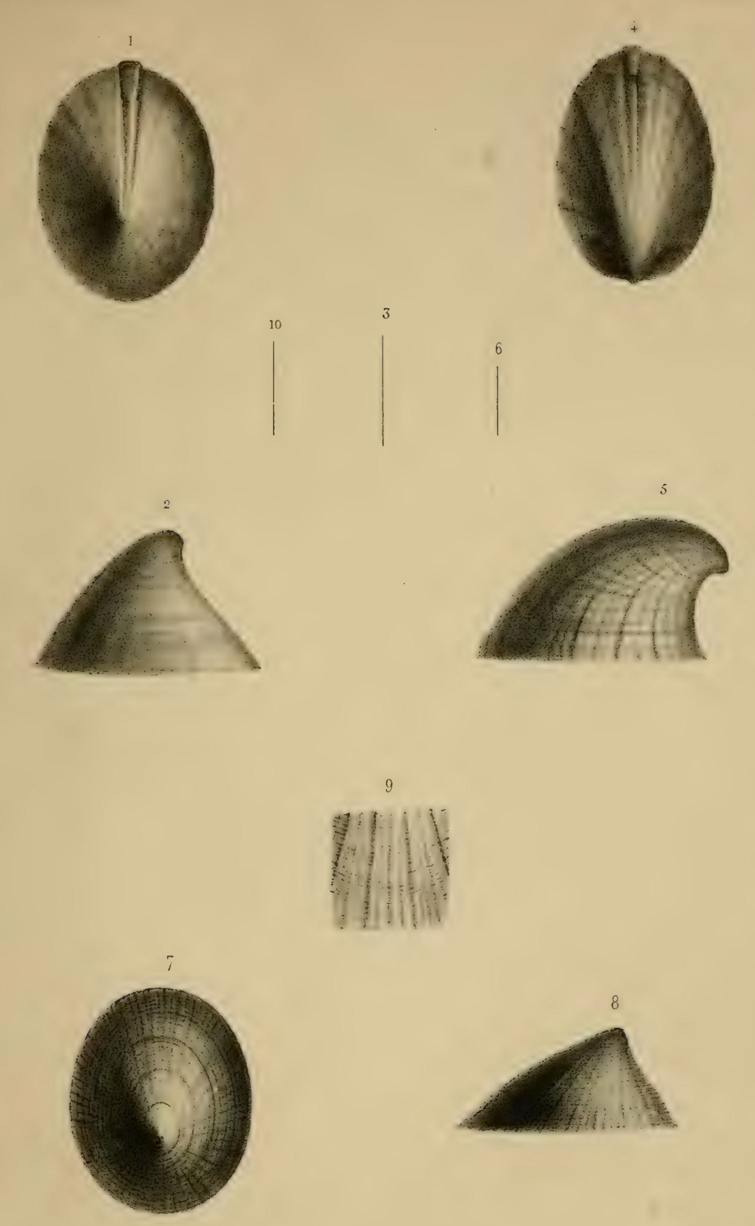
5.7 *Vermetus Royanus*, d'Orb. A.
8.9. V. ——— *albensis*, d'Orb. A.



J. Delarue lith.

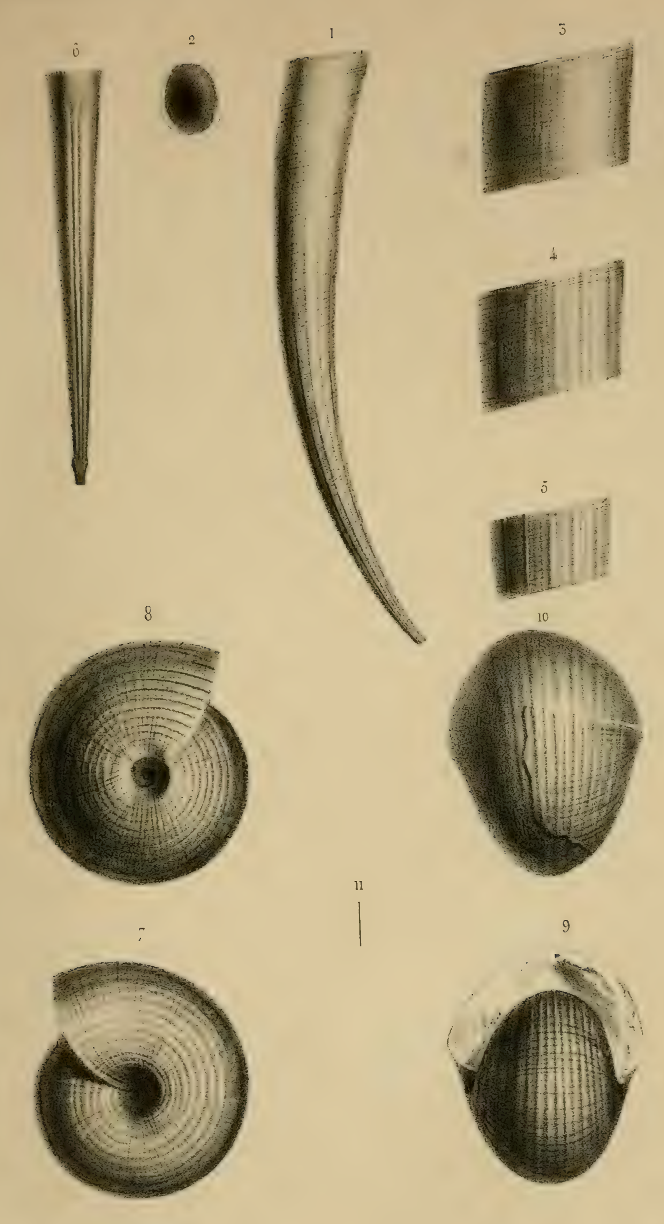
Imp. Lemercier

1.3 *Calyptropsis cretacea, d'Orb. C.C.*
4.8 *Emarginula neocomiensis, d'Orb. N.*
9.12. *E. ——— Guerangeri, d'Orb. C.C.*



J. Delarue lith. Imp. Lemercier

1.3. Emarginula pelagica, Passy. C.C.
4.6. E ——— sanctæ-Catherinæ, Passy. C.C.
7.10. Acmæa tenuicosta, d'Orb. G.



J. Delarue lith.

Imp. Lemercier

1. 6. *Dentalum decussatum, Sow. G.*
7. 12. *Bellerophina Vibrayci, d'Orb. G.*

CLASSIFICATION NATURELLE

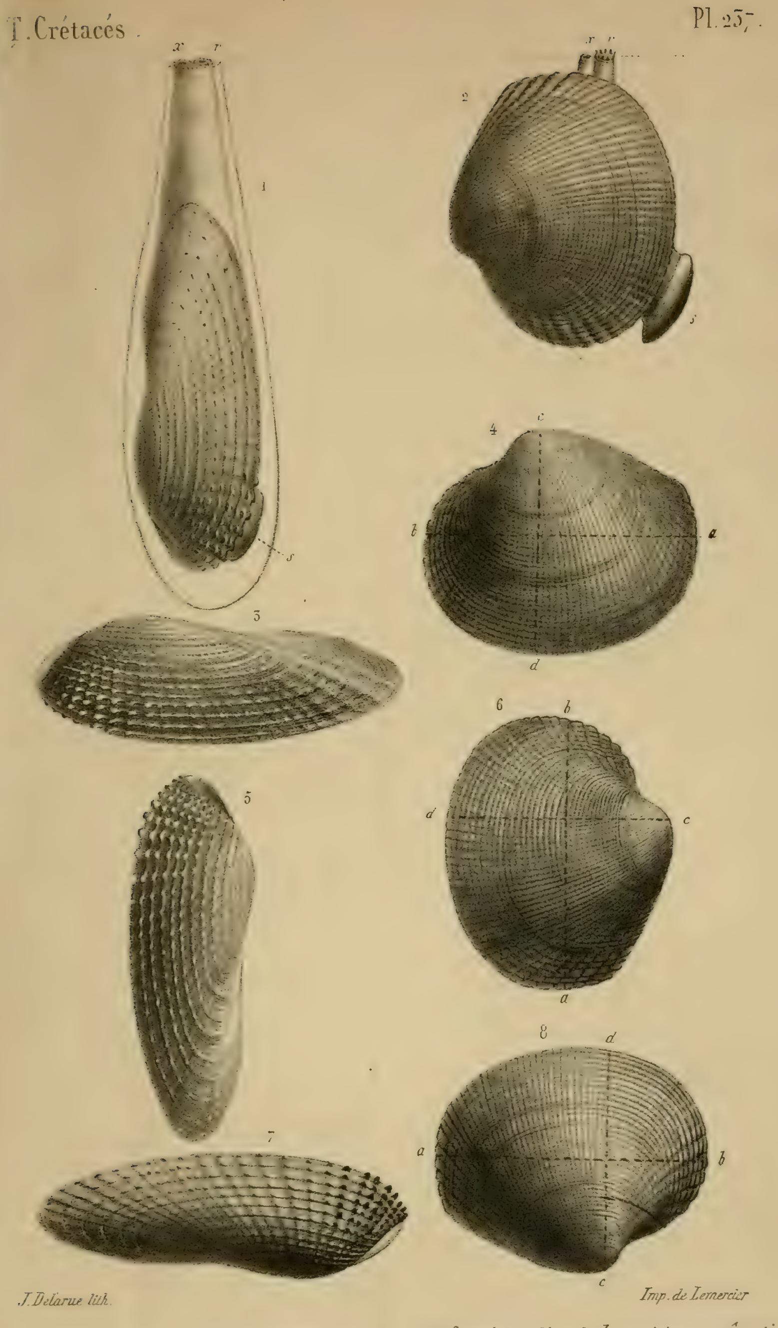
Par bassins, par étages et par zones, **DES TERRAINS CRÉTACÉS DE LA FRANCE**, ***basée sur l'étude comparative de leurs faunes respectives*** **(les Céphalopodes, les Gastéropodes et les Rudistes).**

PAR ALCIDE D'ORBIGNY,

PRÉSIDENT DE LA SOCIÉTÉ GÉOLOGIQUE DE FRANCE.

TERRAINS CRÉTACÉS.

Étage	Terrain	BASSIN PARISIEN. Noms des localités.	BASSIN PARISIEN. Noms des animaux mollusques fossiles.	BASSIN PYRÉNÉEN. Noms des localités.	BASSIN PYRÉNÉEN. Noms des animaux mollusques fossiles.	BASSIN DE LA LOIRE. Noms des localités.	BASSIN DE LA LOIRE. Noms des animaux mollusques fossiles.	BASSIN MÉDITERRANÉEN. Noms des localités.	BASSIN MÉDITERRANÉEN. Noms des animaux mollusques fossiles.
ÉTAGE DE LA CRAIE.	CRAIE BLANCHE ou TERRAIN SÉNONIEN. — *Craie blanche, Upper chalk* de M. MANTELL.	Maestricht, Sainte-Colombe (Manche), Suède, Paris, Sens, Saint-Germain	CRANIA nummulus, nodulosa, striata, costata, spinulosa, antiqua. CRANIA tuberculata. CRANIA parisiensis. BELEMNITELLA quadrata, mucronata. HAMITES simplex. ANANCHYTES ovata. OSTREA vesicularis	Soulage (Aude), Pérignac (Charente-Inférieure)	PLEUROTOMARIA Fleuriausa. OSTREA vesicularis. ANANCHYTES ovatus				
				Royan, Meschers (Charente-Inférieure), Lanquais, Font-Barrade, près de Bergerac, Laveyssière (Dordogne).	RADIOLITES crateriformis, Hœninghaussii, Bournoni, dilatata, alata, acuta, conica. HIPPURITES Espaillaciana. TURRILITES Archiaciana. NERINEA Marrotiana, perigordina, Espaillaciana. AVELLANA royana. GLOBICONCHA Fleuriausa, Marrotiana, ovula. NATICA royana. NERITOPSIS Lævigata. PHORUS canaliculatus. TROCHUS Marrotianus, girondinus, difficilis. TURBO royanus. PHASIANELLA supracretacea. PLEUROTOMARIA Marrotiana, royana, turbinoides, Espaillaciana. FUSUS Espaillaci, turritellatus, Fleuriausus. TROCHATELLA cretacea. PTEROCERA supracretacea				
		Environs de Troyes (Aube)	RADIOLITES cornu-pastoris	Saintes, Pons, Balanzac, St-Savinien, Jonzac (Charente-Inférieure), Cognac, Angoulême (Charente), vallée de la Couze (Dordogne), les Piles, id., Bains-de-Rennes, Sougragne (Aude)	OSTREA carinata, etc. TURRITELLA Bauga. CHEMNITZIA Pailletteana. ACTEONELLA lævigata, crassa. NATICA Requieniana. PLEUROTOMARIA santonesa, secans. HIPPURITES organisans. RADIOLITES ponsiana, lombricalis, radiosa, calceoloides, angulosa, Martiniana, cornu-pastoris. CAPROTINA carinata, Archiaciana. HIPPURITES bioculata, organisans, sulcata, gigantea, canaliculata, striata. RADIOLITES Angeoides, Pailletteana. CAPRINA Aguilloni, Boissyi. NERINEA Pailletteana, subæqualis, Requieniana. PLEUROTOMARIA Mailleana, perspectiva. PTERODONTA intermedia, pupoides, scalaris. CERITHIUM pustulosum. ROSTELLARIA pyrenaica	Sainte-Cerotte, la Flèche (Sarthe)	RADIOLITES cornu-pastoris.	Martigues (Bouches-du-Rhône), Uchaux, Piolen, M[illegible] (Vaucluse), Mais (Gard), la Cadière, Sainte-Baume, Lafarre, le Bausset (Var).	TURRITELLA difficilis, uchauxiana, Renauxiana, Requieniana, Coquandiana, granulata, Verneuiliana. EULIMA amphora, Requieniana. CHEMNITZIA inflata. NERINEA uchauxiana. PYRAMIDELLA canaliculata. ACTEONELLA Renauxiana, gigantea, lævis, crassa. NATICA lyrata, Requieniana, bulbiformis. NERITOPSIS Renauxiana. TURBO Renauxianus, alpinus, indecisus. PLEUROTOMARIA Requieniana. VOLUTA elongata, Requieniana, Gasparini, Renauxiana. FUSUS Renauxianus, Requienianus. CERITHIUM Renauxianum, peregrinorsum, Requienianum, Prosperianum. ROSTELLARIA simplex, ornata, Requieniana, pauperata. HIPPURITES organisans, bioculata, sulcata, gigantea, canaliculata. RADIOLITES ponsiana, Sauvagesii, Martiniana, acuticostata, horrida, excavata, squamosa. CAPRINA Aguilloni, Coquandia. CAPROTINA subæqualis.
	CRAIE CHLORITÉE ou TERRAIN TURONIEN. — *Glauconie crayeuse* de M. BRONGNIART; *grès vert supérieur, craie chloritée, craie tufau, Upper green-sand, chalk marl* des Anglais, de MM. MANTELL et FITTON; *chloritsche kreide* des Allemands; craie inférieure du sud-ouest de la France; craie à Baculites	Cap Blanc-Nez (Pas-de-Calais), Ste-Catherine, près le Rouen, le Havre (Seine-Inférieure), Honfleur (Calvados; craie à Baculites, Valogne (Manche), Auxon, Troyes (Aube), Montblainville (Meuse)	NAUTILUS lævigatus, Largilliertianus, Matheronianus, elegans, Deslongchampsianus, Archiacianus. AMMONITES falcatus, Largilliertianus, Lewesiensis, Mantelli, Rhotomagensis, rusticus, varians, Woolgarii, peramplus, Verneuilianus, Lafresnayeanus. SCAPHITES æqualis, constrictus. HAMITES simplex, armatus, cylindraceus. BACULITES baculoides, anceps. TURRILITES tuberculatus, Gravesianus, costatus, Desnoyersianus, Scheutschzerianus, ornatus, bifrons. EXOGYRA columba. NAUTILUS triangularis, radiatus. AVELLANA Archiaciana, cassis, Rauliniana. NERILOPSIS ornata. TROCHUS Basteroti. TURBO Rhotomagensis, Mailleanus. PLEUROTOMARIA Mailleana, perspectiva, formosa, Moreausiana, Brongniartiana, Marrotianus. EMARGINULA pelagica, Sanctæ-Catharinæ. ROSTELLARIA Mailleana, inornata. PTEROCERA marginata, inflata.	Rochefort, Port-des-Barques (Charente-Inférieure), Bains-de-Rennes, Soulages (Aude), Cognac (Charente), Rochefort, Port-des-Barques, Fouras, Ile-Madame, Ile-d'Aix (Charente-Inférieure).	NAUTILUS triangularis, Fleuriausianus. AMMONITES Carolinus, Fleuriausianus, Mantelli, Pailletteanus, Rhotomagensis, tricarinatus, varians, Woolgarii. SCAPHITES compressus. EXOGYRA columba. HAMITES armatus. TURRILITES plicatus, acuticostatus. TURBO cognacensis. CERITHIUM ataxense. NERINEA Bauga.	Tours, Saint-Georges, Rochecourbon (Indre-et-Loire), Saumur (Maine-et-Loire), Tourtenay (Deux-Sèvres), Poncé, Ste-Cerotte (Sarthe).	NAUTILUS lævigatus. AMMONITES Carolinus, Goupilianus, peramplus, Gallienei, Diardi. ACTEONELLA crassa. PLEUROTOMARIA Gallienei. CONUS tuberculatus. VOLUTA Labayesi. ACTEON ovum. AMMONITES Beaumontianus, catillus, Fleuriausus, Vibrayeanus. SCAPHITES æqualis. BELEMNITELLA Gallienei	Uchaux, Orange (Vaucluse), Malle, Escragnolle (Var), Vergons (Basses-Alpes), Cassis, Ciotat (Bouches-du-Rhône)	NAUTILUS lævigatus, Largilliertianus, elegans. AMMONITES Beaumontianus, Bravaisianus, Deverianus, Feraudianus, falcatus, Goupilianus, Mantelli, Largilliertianus, Papalis, Prosperianus, peramplus, Renauxianus, Requienianus, Rhotomagensis, Sartousianus, varians. SCAPHITES æqualis. HAMITES armatus. BACULITES baculoides. TURRILITES tuberculatus, Gravesianus, costatus. EXOGYRA columba. NAUTILUS triangularis. ACTEON ovum. AVELLANA cassis. TROCHUS Requienianus. PTERODONTA ovata. NERINEA Pailletteana, pulchella, pauperata, Requieniana. NATICA Martinii, cassisiana, Matheroniana. NARICA cretacea. PLEUROTOMARIA Mailleana, perspectiva, Gallienei, falcata, Matheroniana, cassisiana. MITRA cancellata. COLOMBELLINA ornata. CERITHIUM Matheroni, provinciale, cassisianum. EMARGINULA Sanctæ-Catharinæ. ROSTELLARIA varicosa. PTEROCERA marginata.
				Ile-d'Aix, Ile-Madame, Nancras (Charente-Inférieure), Angoulême, Cognac, St-Trojan (Charente), Nontron (Dordogne).	NAUTILUS lævigatus. OSTREA biauriculata. RADIOLITES foliacea, triangularis, polyconilites, Fleuriausa, lamellosa. CAPRINA adversa, quadripartita, semistriata, costata, striata. CAPROTINA rugosa, navis, lævigata. ICHTHYOSARCOLITES triangularis. NERINEA Fleuriausa, aunisiana, regularis, brevis, monilifera. NATICA difficilis. STOMATIA aspera. PTEROCERA polycera. STROMBUS inornatus. PTERODONTA elongata, inflata. CERITHIUM reflexilabrum	Tourtenay (Deux-Sèvres), Saumur (Maine-et-Loire), Lamnay, le Mans, Saint-Calais (Sarthe)	NAUTILUS triangularis. AMMONITES Mantelli, Rhotomagensis. NERINEA monilifera. GLOBICONCHA rotundata. NERILOPSIS pulchella. TROCHUS Guerangeri, sarthinus, Marçaisi. ROTELLA Archiaciana. SOLARIUM Guerangeri, scalare. TURBO Goupilianus, Guerangeri, bicultratus, tricostatus, cretaceus, obtusus. PLEUROTOMARIA Labayesi, simplex, Guerangeri. STROMBUS inornatus. PTERODONTA elongata, inflata. VOLUTA Guerangeri. CERITHIUM Guerangeri, gallicum, limæformis. EMARGINULA Guerangeri. PTEROCERA incerta. *Ichthyosarcolites triangularis.* SCAPHITES æqualis. TURRILITES costatus, Scheutchzerianus.	La Malle, Escragnolle (Var)	STROMBUS inornatus. PTERODONTA inflata
ÉTAGE DU GAULT ou TERRAIN ALBIEN — *Glauconie sableuse* de M. BRONGNIART; *grès vert, le gault,* des Français; *le blueclay, le gault, le galt* de M. SMITH, de M. FITTON; *le blue marl* de M. MANTELL; grès vert de la perte du Rhône; le *Speeton-Clay* de M. PHILLIPS		Racine, Gaty, Dienville, Gérodot, Ervy, Courcelle (Aube), Côtes-Noires, Valcourt, Droyes, Montiers-en-Der (Haute-Marne), St-Florentin (Yonne), Senefontaine (Oise), Sur-le-Fond (Doubs), Wissant (Pas-de-Calais), Machéroménil, Sauce-aux-Bois, Novion (Ardennes), Varennes (Meuse), Copt-Point, Lyme-Regis, Redge, Ringmer (Angleterre)	AMMONITES Beudanti, Clementinus, Delaruei, Dupinianus, inflatus, interruptus, Lyelli, latidorsatus, mammillatus, Velledæ, Parandieri, versicostatus, varicosus, Mayorianus, varicosus, auritus, Bouchardianus, bicurvatus, denarius, regularis, fissicostatus, cristatus, tardefurcatus, Fittoni, lautus, splendens, tuberculatus, Milletianus. BELEMNITES minimus. NAUTILUS Clementinus, Bouchardianus. HAMITES rotundus, attenuatus, flexuosus, Bouchardianus, alternatus, virgulatus. TURRILITES Vibrayeanus. BELLEROPHINA Vibrayei. TURRITELLA Vibrayeana, Rauliniana. SCALARIA Clementina, Dupiniana, gaultina, Rauliniana, Gaultina. RISSOA Dupiniana. RISSOINA incerta. ACTEON Vibrayeana. RINGINELLA lacryma, inflata, Clementina. AVELLANA incrassata, Dupiniana, ovula. NATICA Clementina, excavata, gaultina, Dupinii, Ervyna, Rauliniana. SOLARIUM dilatatum, moniliferum, conoideum, ornatum, dentatum, granosum, albense. TURBO plicatilis, decussatus. PHASIANELLA gaultina, Ervyna. PLEUROTOMARIA gaultina, gurgitis, alpina. ROSTELLARIA carinata, calcarata, tricostata, carinella, Parkinsoni. PTEROCERA bicarinata. STROMBUS Dupinianus. FUSUS Dupinianus, albensis, gaultinus, elegans, Vibrayeanus, Clementinus, indecisus. BUCCINUM gaultinum. CERITHIUM subspinosum, Lallierianum, Vibrayeanum, ervynum, tectum, trimonile, ornatissimum. ACMÆA tenuicosta. DENTALIUM decussatum.					Escragnolle (Var), Montagne-des-Fis (Savoie), St-Paul-de-Fenouillet (Pyrénées-Orientales), Cluse, le Reposoir (Savoie), Venterol, Clansaye (Drôme), Perte-du-Rhône (Ain)	NAUTILUS Clementinus. AMMONITES fissicostatus, Milletianus, nodosocostatus, Alpinus, Beudanti, Camateanus, Delaruei, interruptus, Lyelli, latidorsatus, mammillaris, Mayorianus, Parandieri, Roissyanus, Senequierianus, versicostatus. HAMITES elegans, sablieri, virgulatus. CRIOCERAS Astierianus, cristatus. TURRILITES catenatus, Astierianus, Senequierianus, Emericianus, bituberculatus, Mayorianus, elegans, Robertianus, Bergeri. TURRITELLA Vibrayeana, Hugardiana. SCALARIA Clementina, Dupiniana. RINGINELLA inflata. AVELLANA inflata, Hugardiana. NATICA Clementina, gaultina, Dupinii, ervyna, Rauliniana. SOLARIUM Astierianum, moniliferum, conoideum, ornatum, dentatum, cirroide, granosum, Martinianum. TURBO Astierianus, Martinianus, Pictetianus, Chassyanus. PLEUROTOMARIA dimorpha, lima, gurgitis, Rhodani, alpina, Uchauxiana. ROSTELLARIA Parkinsoni, Drunensis, Ititeriana. STROMBUS Dupinianus. FUSUS Itierianus. CERITHIUM trimonile, excavatum
	TERRAIN APTIEN. — *Argile à Plicatules* et *argile ostréenne* de M. CORNUEL; *argile téguline* de M. LEYMERIE	Bailly-aux-Forges, Wassy (Haute-Marne), Villeneuve, entre Ervy et Marolle (Aube), environs d'Auxerre (Yonne).	NAUTILUS Requienianus. AMMONITES cesticulatus, Cornuelianus, Deshayesi, Nisus, raresulcatus, Royerianus. TOXOCERAS Royerianus, Cornuelianus, Emericianus. ANCYLOCERAS varians. HAMITES Royerianus. NATICA Cornueliana. TURBO dispar. CERITHIUM aptiense, Cornuelianum, matronense. VERMETUS Rouyanus, albensis					Cassis (Bouches-du-Rhône), Vergons (Basses-Alpes), Gargas (Vaucluse).	BELEMNITES semicanaliculatus. NAUTILUS Requienianus. AMMONITES Belus, consobrinus, crassicostatus, Dufresnoyi, Duvalianus, Emerici, Flexisulcatus, Gargasensis, Guettardi, impressus, inornatus, Martinii, Matheroni, nisus, pretiosus, strangulatus, striatisulcatus. TOXOCERAS Emericianus, Royerianus. ANCYLOCERAS Matheronianus, Renauxianus, Duvalianus, brevis. CERITHIUM aptiense, Rouyanum, gargasense. VERMETUS Rouyanus
ÉTAGE NÉOCOMIEN — *Terrain crétacé inférieur* de M. ÉLIE DE BEAUMONT; *terrain néocomien* de M. MONTMOLLIN	TERRAIN NÉOCOMIEN. — Calcaire et argile à Spatangues et les marnes bleues, de M. CORNUEL; *Lower green-sand*, de M. FITTON	Angleterre	CAPROTINA Lonsdalii					Alais (Gard), Martigues, Cassis, Orgon (Bouches-du-Rhône), Grenoble (Isère), Chambéry (Savoie)	NERINEA Coquandiana, Renauxiana, gigantea, Archimedi, chamousseti. NATICA Hugardiana. RADIOLITES neocomiensis. CAPROTINA ammonia, lamellosa, trilobata, Lonsdalii
		Calcaires, marnes à Spatangues et marnes bleues de St-Dizier, Wassy, Beaudrecourt, Bettancourt-la-Ferrée, Villeen-Blaisois (Haute-Marne), Vendeuvre, Marolle, Lusigny (Aube), Neuchâtel (Suisse), St-Sauveur, Chatel-censoir (Yonne), Renaud-du-Mont, Russey, près de Morteau (Doubs).	BELEMNITES Beaudouini, dilatatus. NAUTILUS pseudo-elegans. AMMONITES bidichotomus, difficilis, cryptoceras, Leopoldinus, radiatus, Astierianus, Carteroni, Castellanensis, Gevrilianus. CRIOCERAS Cornuelianus. TURRITELLA Dupiniana, angulata, lævigata. SCALARIA canaliculata, albensis. EULIMA albensis, melanoides. NERINEA Royeriana, Dupiniana, matronensis, Carteroni, lobata, bifurcata. ACTEON Dupiniana, affinis, marginata, albensis, ringens, scalaris. AVELLANA globulosa. NATICA lævigata, prælonga, bulimoides. NERITOPSIS Robinausiana. TROCHUS albensis, striatulus, marollinus, dentigerus. SOLARIUM Dupinianum, neocomiense. DELPHINULA Dupiniana. TURBO Desvoidyi, acuminatus, marollinus, inconstans, Mantelli, yonninus, elegans. PHASIANELLA neocomiensis. PLEUROTOMARIA neocomiensis, Pailletteana, elegans, Robinaldi, Dupiniana, albensis, Carteroni. ROSTELLARIA Dupiniana, Robinaldina, Royeriana, acuta, scalaris. FUSUS neocomiensis, infracretaceus, ornatus. COLOMBELLINA monodactylus. CERITHIUM terebroides, marollinum, Dupinianum, albense, Phillipsii, Clementinum, Gaudryi, pyramidale, nassoide, neocomiense, Beaudouini. EMARGINULA neocomiensis. PTEROCERA Moreausiana, speciosa, Dupiniana, pelagi.					Escragnolle? (Vaucluse), St-Julien-Beauchêne (Hautes-Alpes), St-Martin, Lattes, Caussol, Source-du-Loup, Sassenage (Var), Lagne, Castellane, Cheiron, Sisteron, Barrême, Robion, Lioux (Basses-Alpes).	BELEMNITES dilatatus, bipartitus, subfusiformis, latus, polygonalis, Emerici, extinctorius. NAUTILUS pseudo-elegans, neocomiensis. AMMONITES angulicostatus, asperrimus, heliacus, belus, picturatus, pulchellus, Astierianus, Carteroni, Cassida, Castellanensis, clypeiformis, compressissimus, cryptoceras, cultratus, Didayanus, difficilis, Diphyllus, Grasianus, incertus, Honoratianus, inæqualicostatus, infundibulum, intermedius, ixion, Jeannoti, Juilleti, Leopoldinus, lepidus, ligatus, macilentus, Morelianus, neocomiensis, ophiurus, quadrisulcatus, radiatus, recticostatus, Rouyanus, semistriatus, semisulcatus, Thetys, seranonis, simplus, sinuosus, subfascicularis, subfimbriatus, Terverii, verrucosus. CRIOCERAS Duvalii, Villiersianus, Emerici, Puzosianus. TOXOCERAS Requienianus, bituberculatus, elegans, Duvalianus, annularis, honoratianus, obliquatus. ANCYLOCERAS dilatatus, pulcherrimus, simplex, cinctus, Puzosianus, furcatus. SCAPHITES Ivanii. HAMITES incertus, dissimilis, Emericianus. PTYCHOCERAS Emericianus, Puzosianus. BACULITES neocomiensis. ACTEON Astieriana. NATICA Coquandiana. TROCHUS Astierianus. PLEUROTOMARIA neocomiensis, Pailletteana, elegans, provincialis. ROSTELLARIA alpina, provincialis, Astieriana. PTEROCERA pelagi, Beaumontiana, Emerici



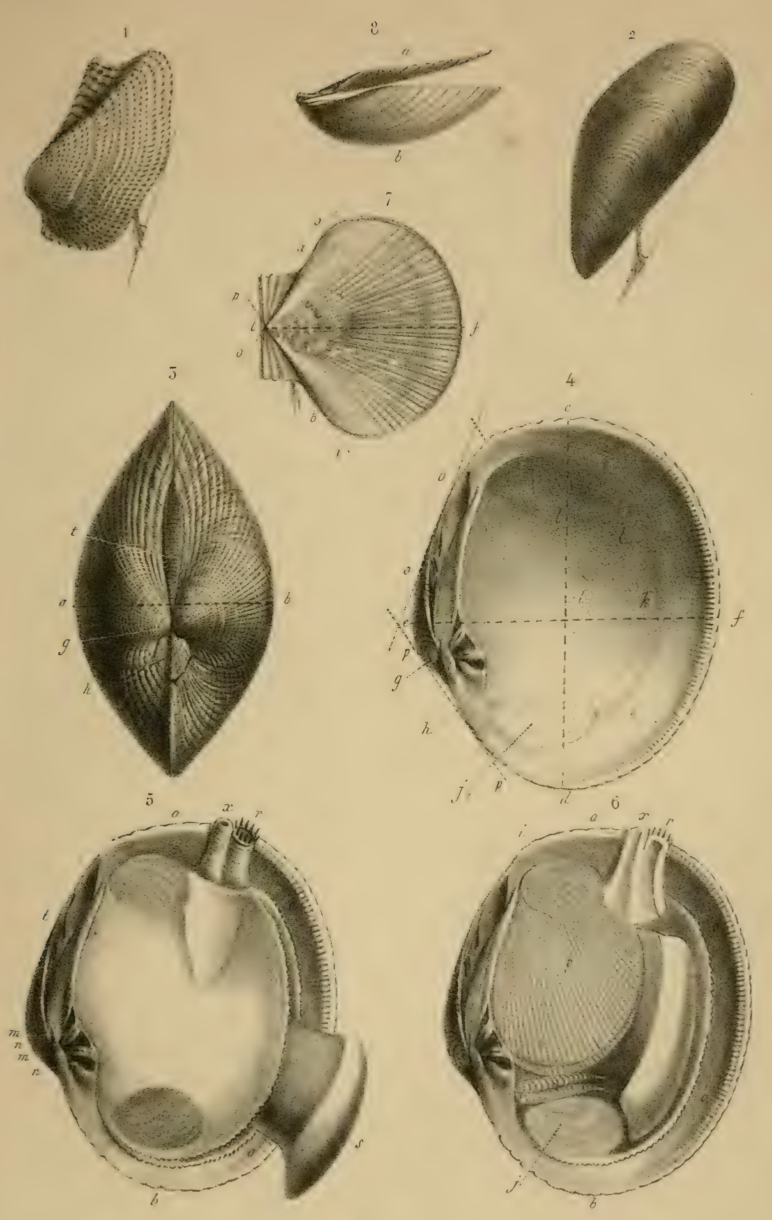
J. Delarue lith.

Imp. de Lemercier

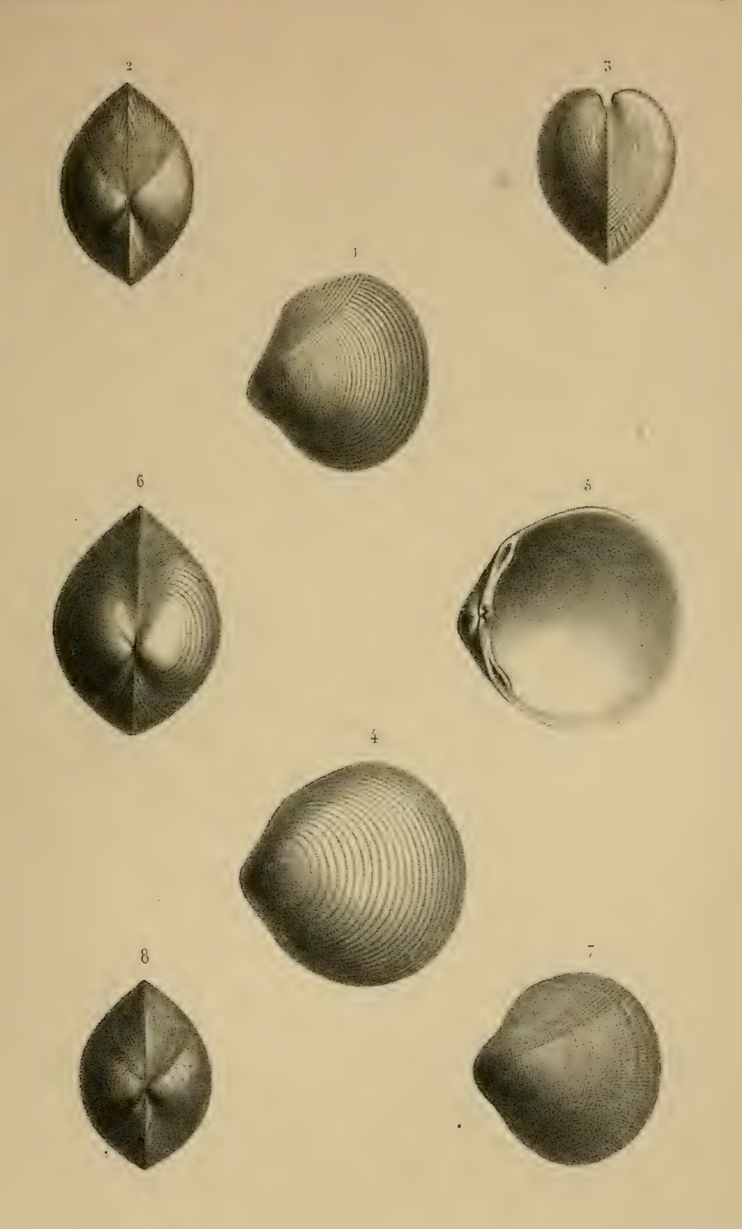
1.2. Coquilles dans leur position naturelle.
3.4. C. — suivant la méthode de Mr de Blainville.

5.6. Coquilles d'après la position systématique adoptée par Mr Deshayes.
7.8. Coquilles suivant Linnée et Lamarck.





J. Delarue lith. Imp. de Lemercier.



J. Delarue lith.

Imp. Lemercier.

1.2.3. *Cardium peregrinorsum*, d'Orb. N.

4.6. C———*imbricatarium*, d'Orb. N

7.8. C———*subhillanum*, Leym. N

1

3

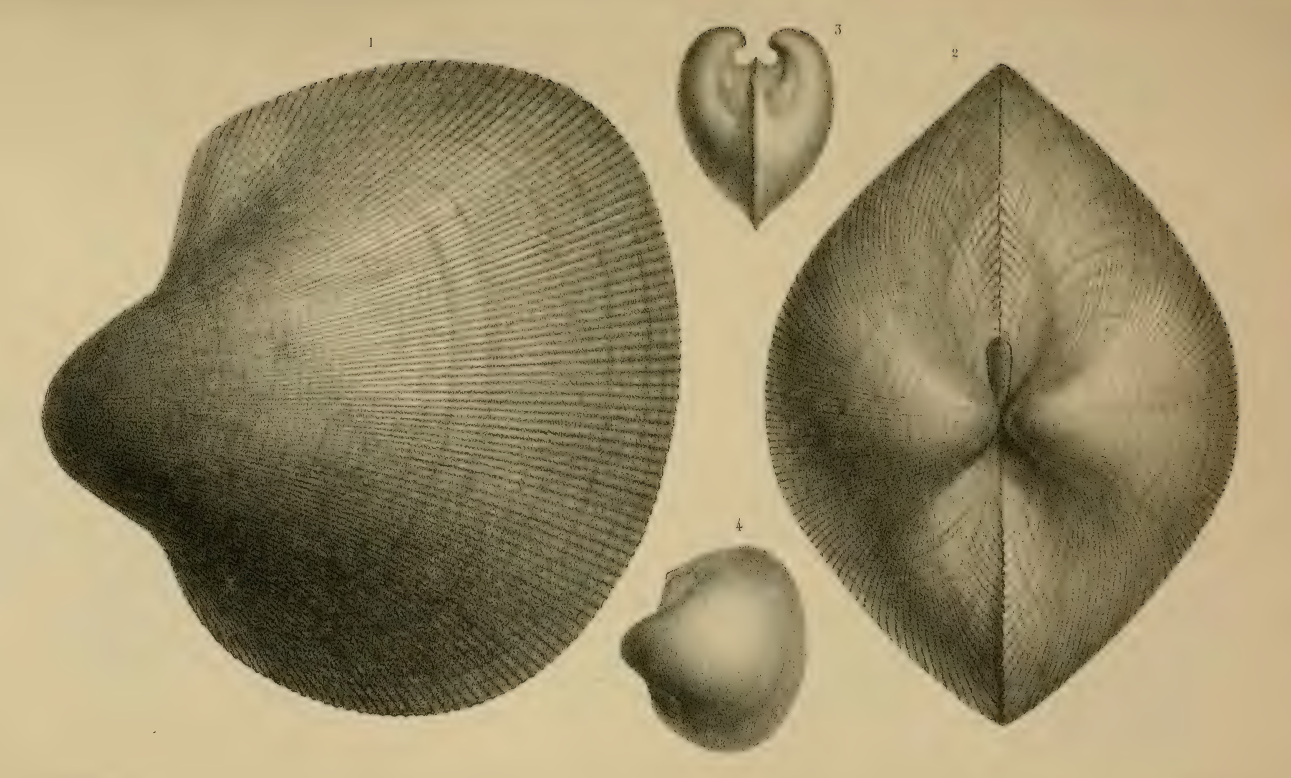
2

4

J. Delarue lith

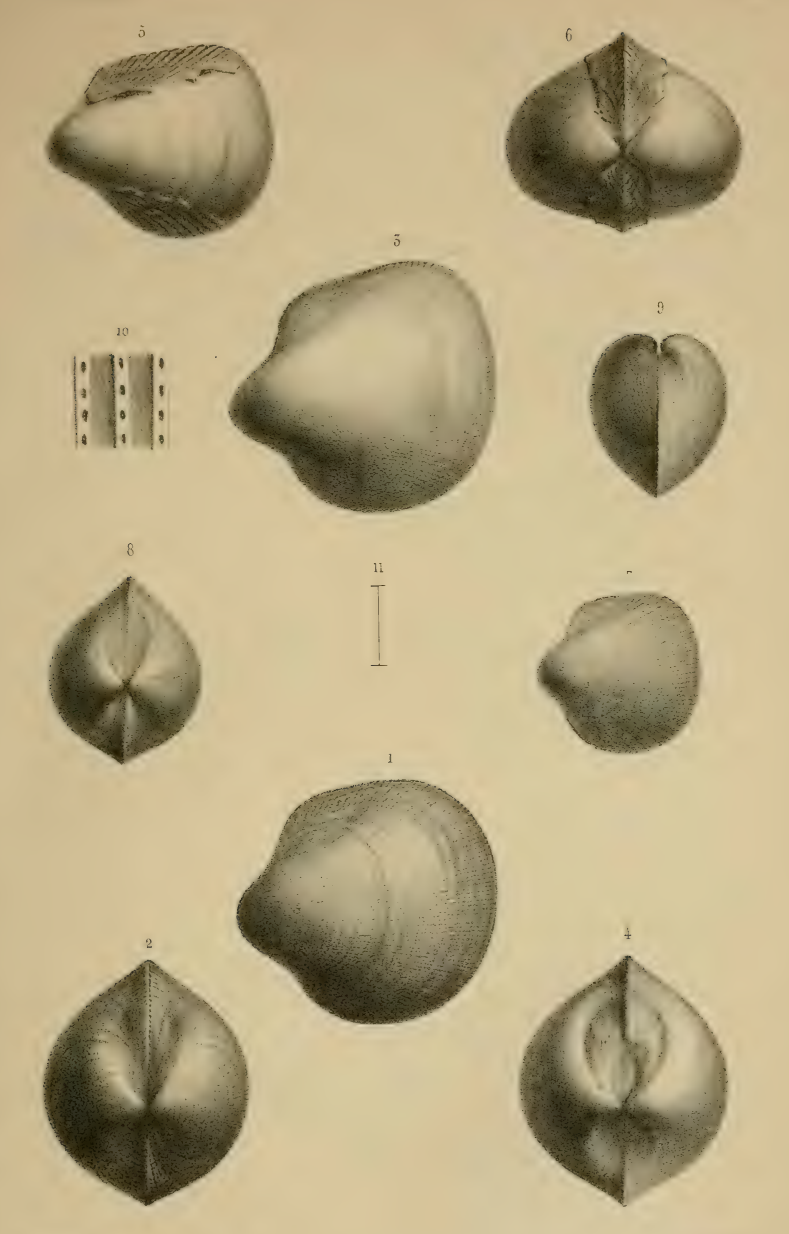
Imp. Lemercier

Cardium impressum, Desh. N.



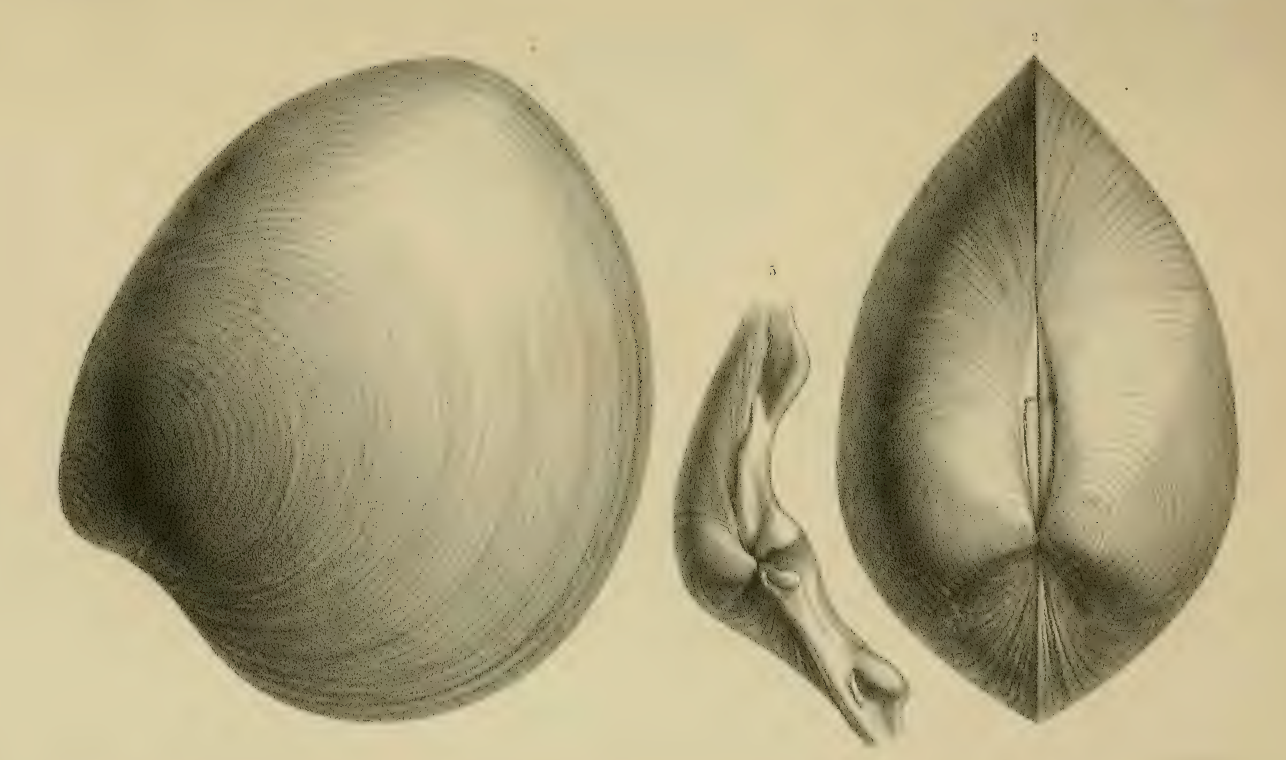
J. Delarue lith. Imp. Lemercier

Cardium Voltzi, Leym. N.



J. Delarue lith. Imp. Lemercier

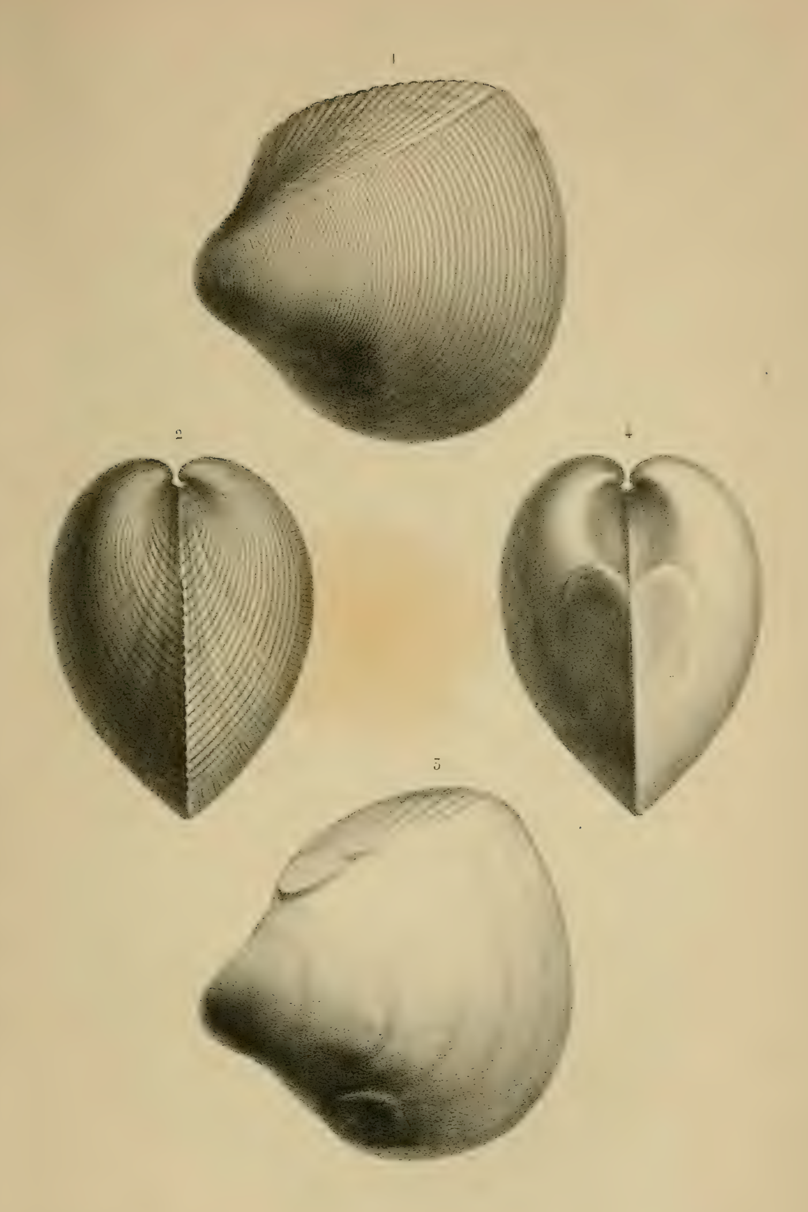
1–4. *Cardium Cottaldinum*, d'Orb. N.
5–6. *C. Constantii*, d'Orb. G.
7–11. *C. Raulinianum*, d'Orb. G.



J. Delarue lith.

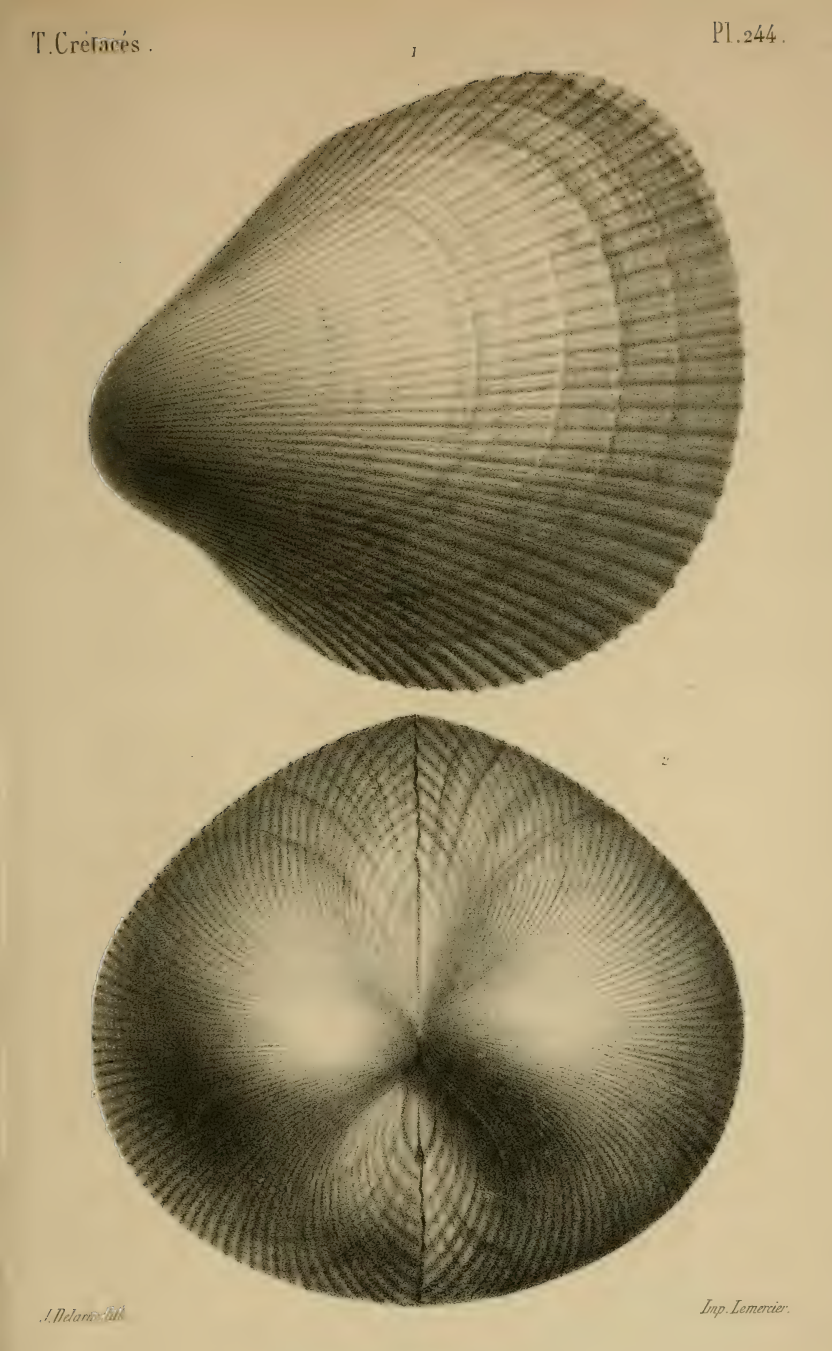
Imp. Lemercier

Cardium Dupinianum, d'Orb. G.



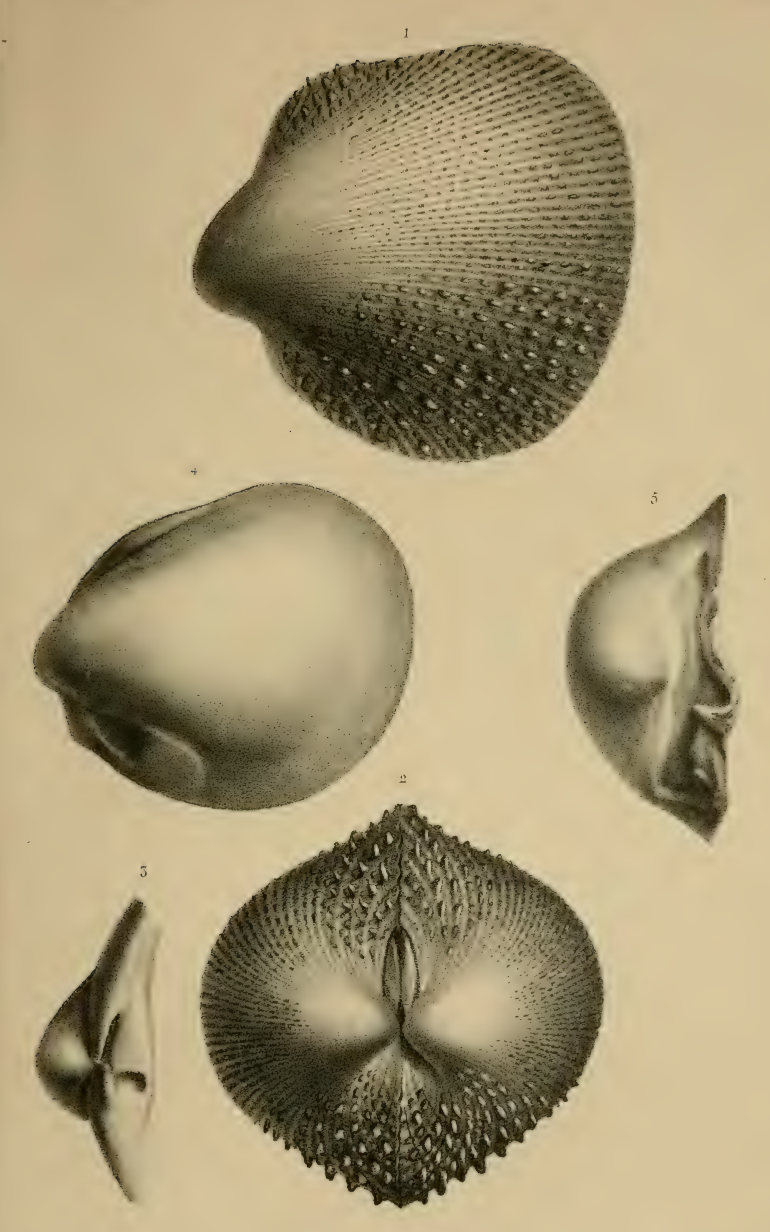
J. Delarue lith. Imp. Lemercier.

Cardium Hillanum, Sowerby CC.



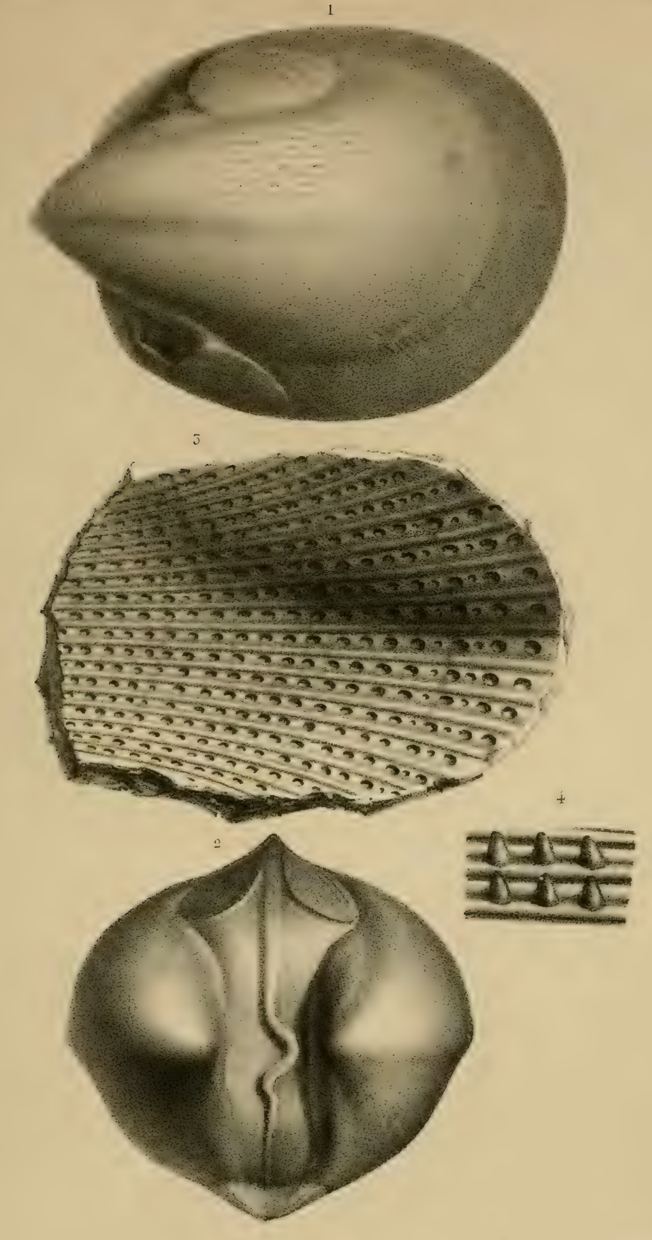
J. Delarue lith. Imp. Lemercier.

Cardium Conniacum, d'Orb. C.C.



J. Delarue lith. Imp. Lemercier.

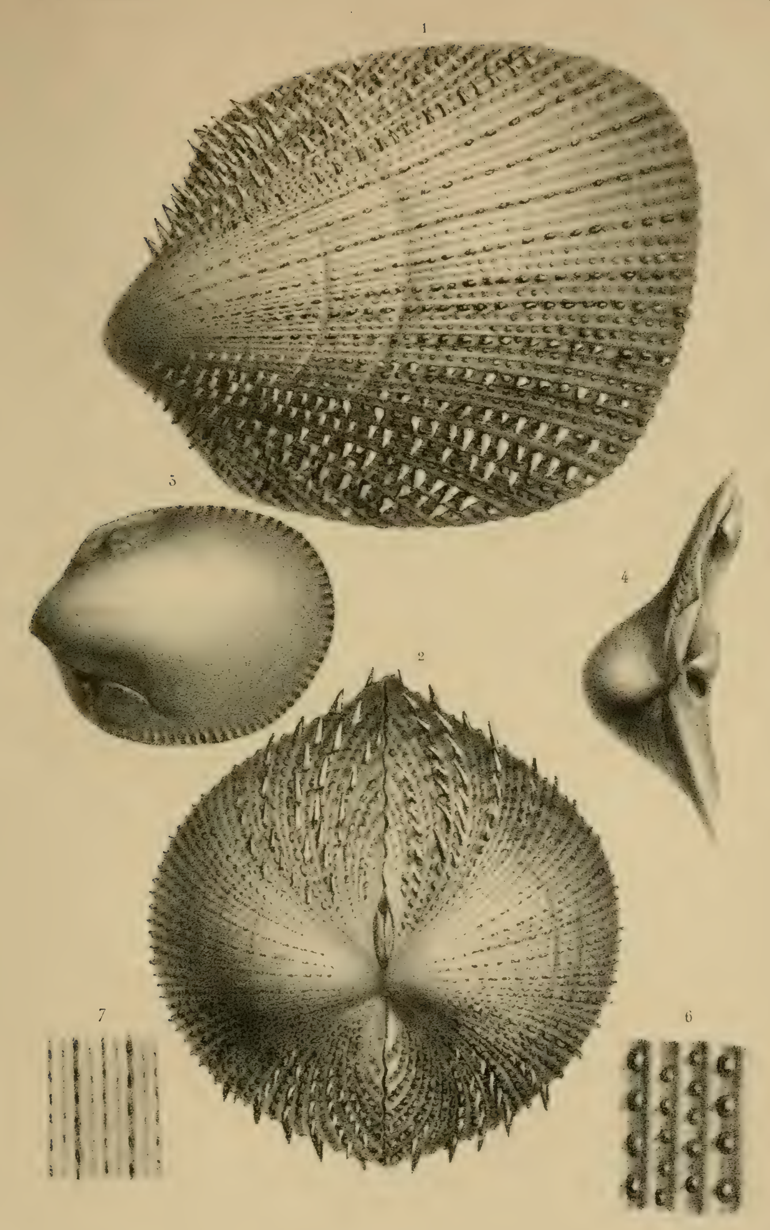
Cardium Carolinum, d'Orb. C.C.



J. Delarue lith.

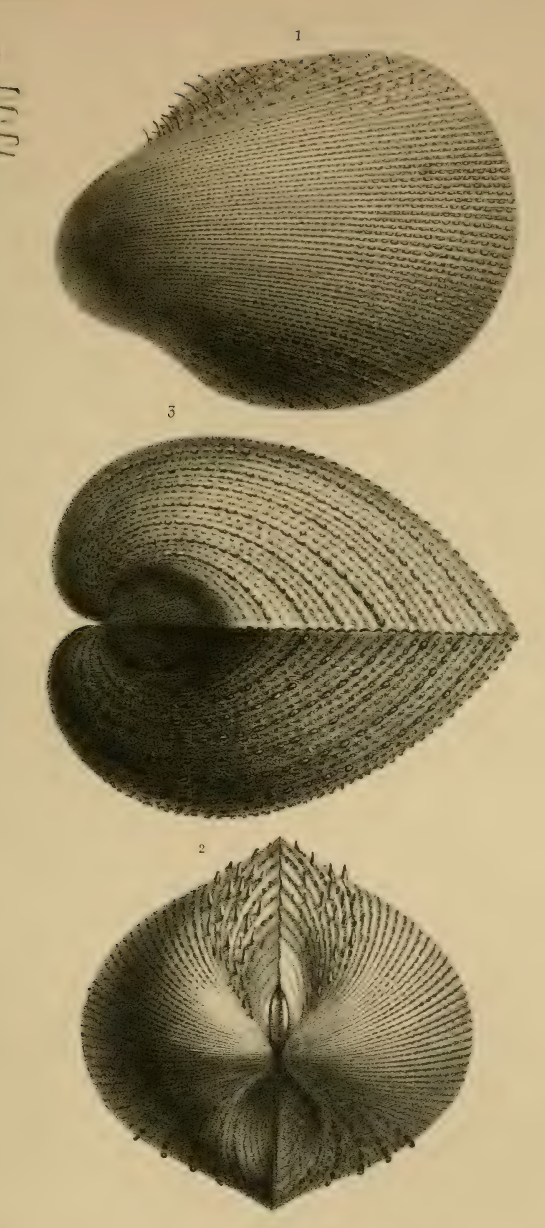
Imp. Lemercier.

Cardium alternatum, d'Orb. C.C.



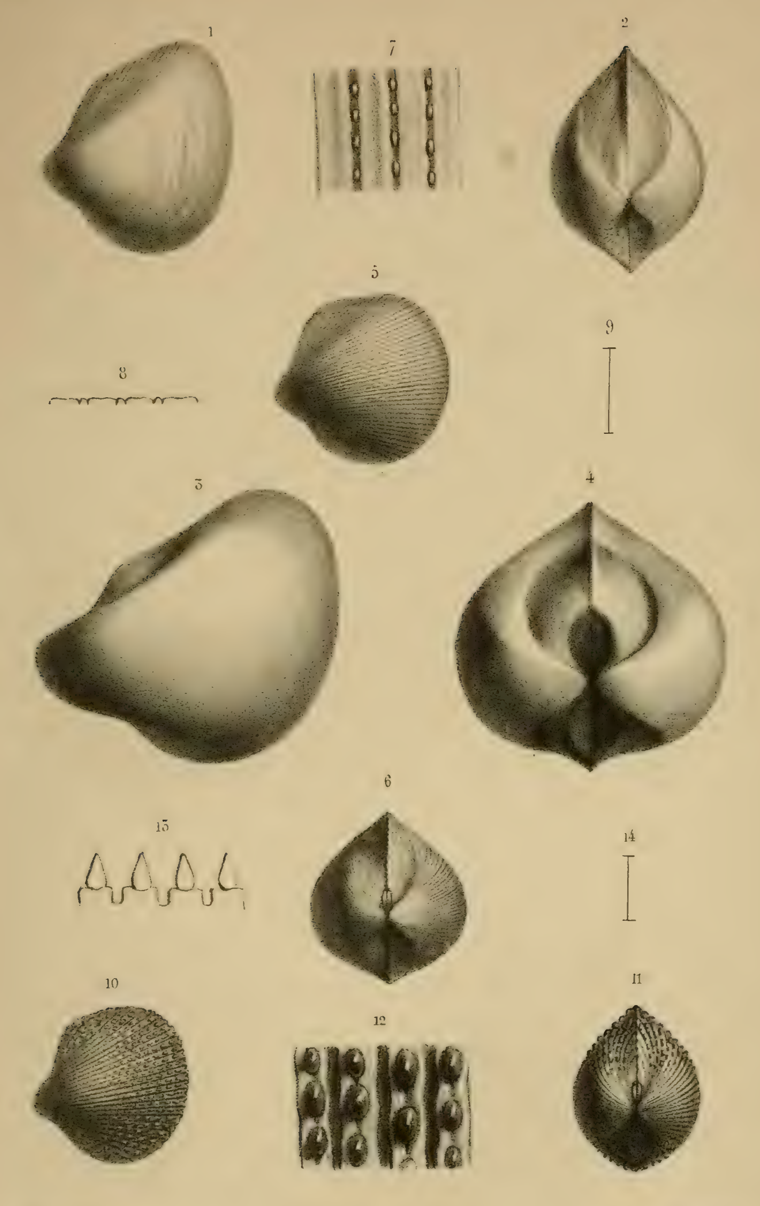
J. Delarue del. Imp. Lemercier

Cardium productum, Sow. C.C.



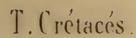
J. Delarue lith. Imp. Lemercier.

Cardium Moutonianum, d'Orb. C.C.



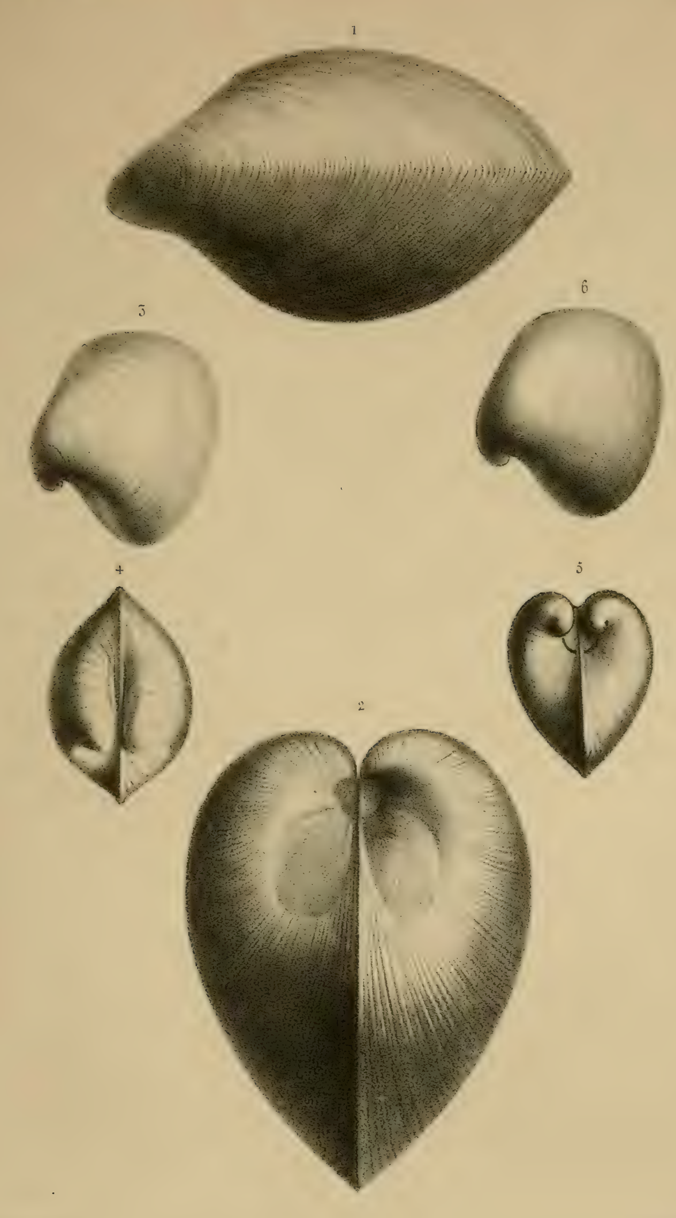
J. Delarue lith.   Imp. Lemercier.

1-4. *Cardium Guerangeri, d'Orb. C.C.*
5-9. *C. cenomanense, d'Orb. C.C.*
10-13. *C. vindenense, d'Orb. C.C.*



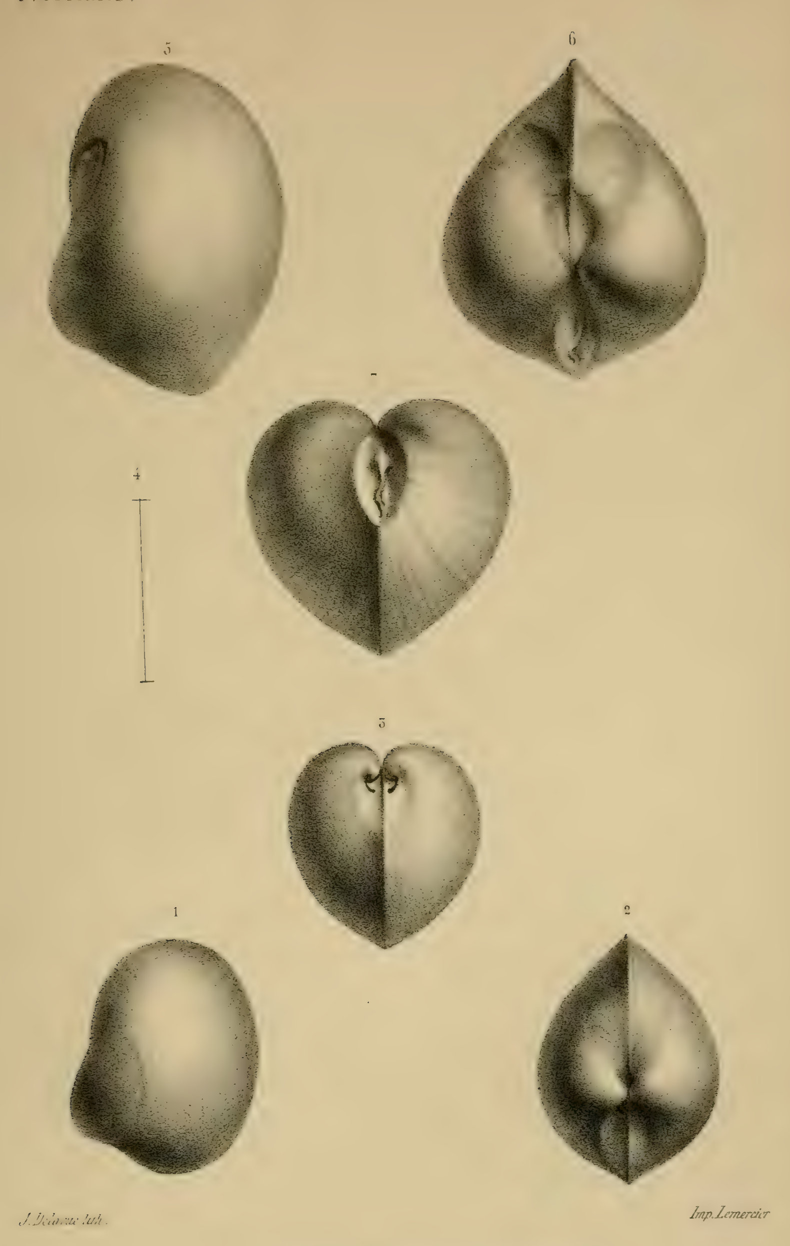
J. Delarue lith. Imp. Lemercier

1-3. Cardium Subdininense, d'Orb. C.C.
4-8. C. bimarginatum, d'Orb. C.C.
9-11. Isocardia neocomiensis, d'Orb. N.



J. Delarue lith. Imp. Lemercier.

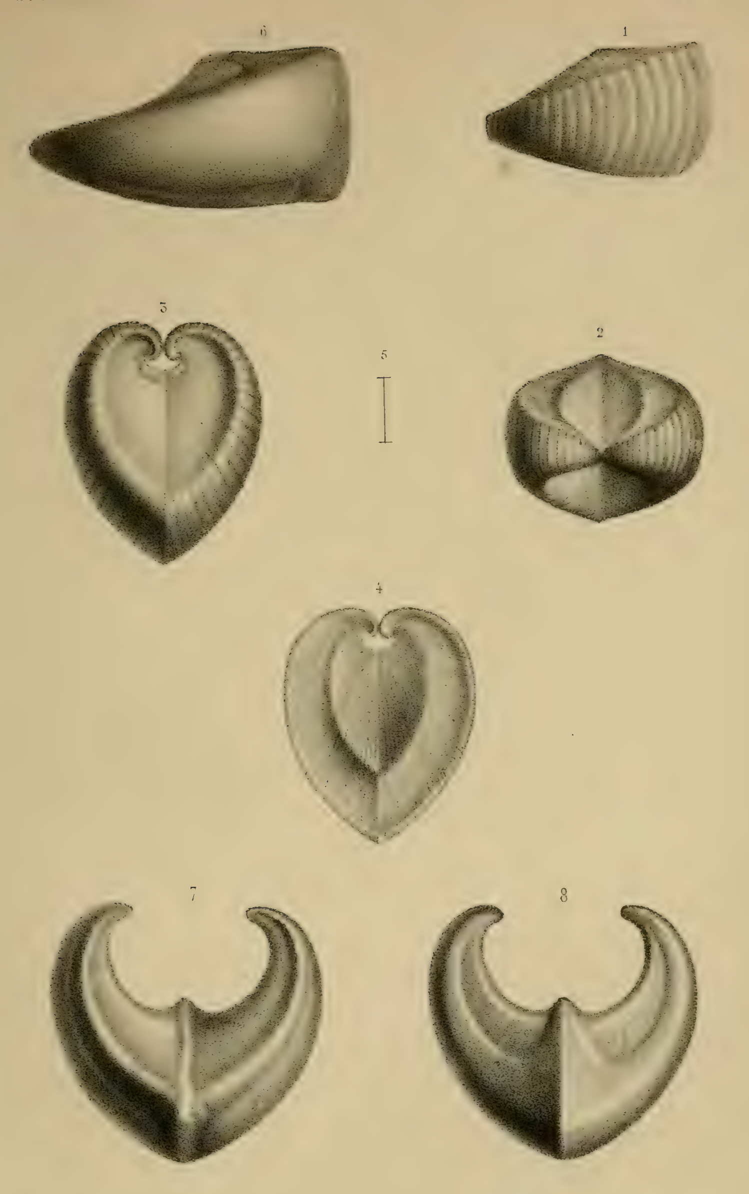
1. 2. Isocardia pyrenaica, d'Orb. C.C.
3. 6. I. ataxensis, d'Orb. C.C.



J. Delarue lith.

Imp. Lemercier

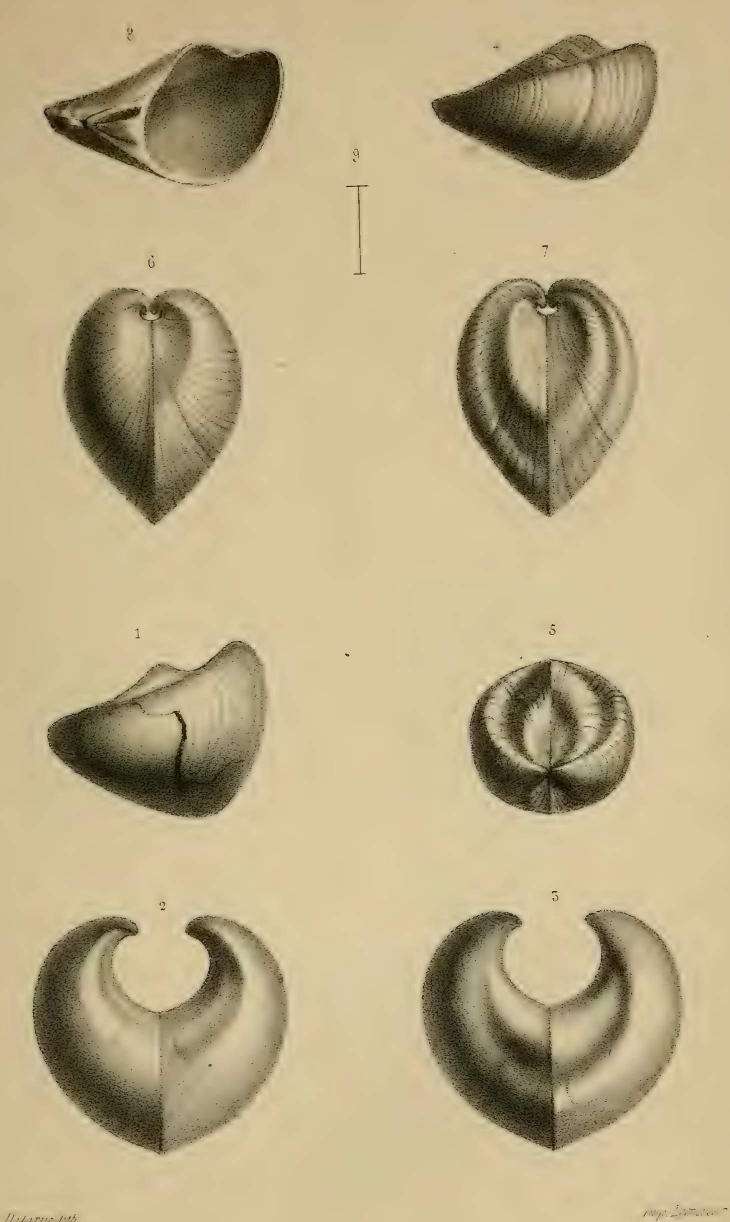
1-4. *Isocardia carantonensis*, d'Orb. CC.
5-7. *I. cryptoceras*, d'Orb. CC.



J. Delarue lith.

Imp. Lemercier.

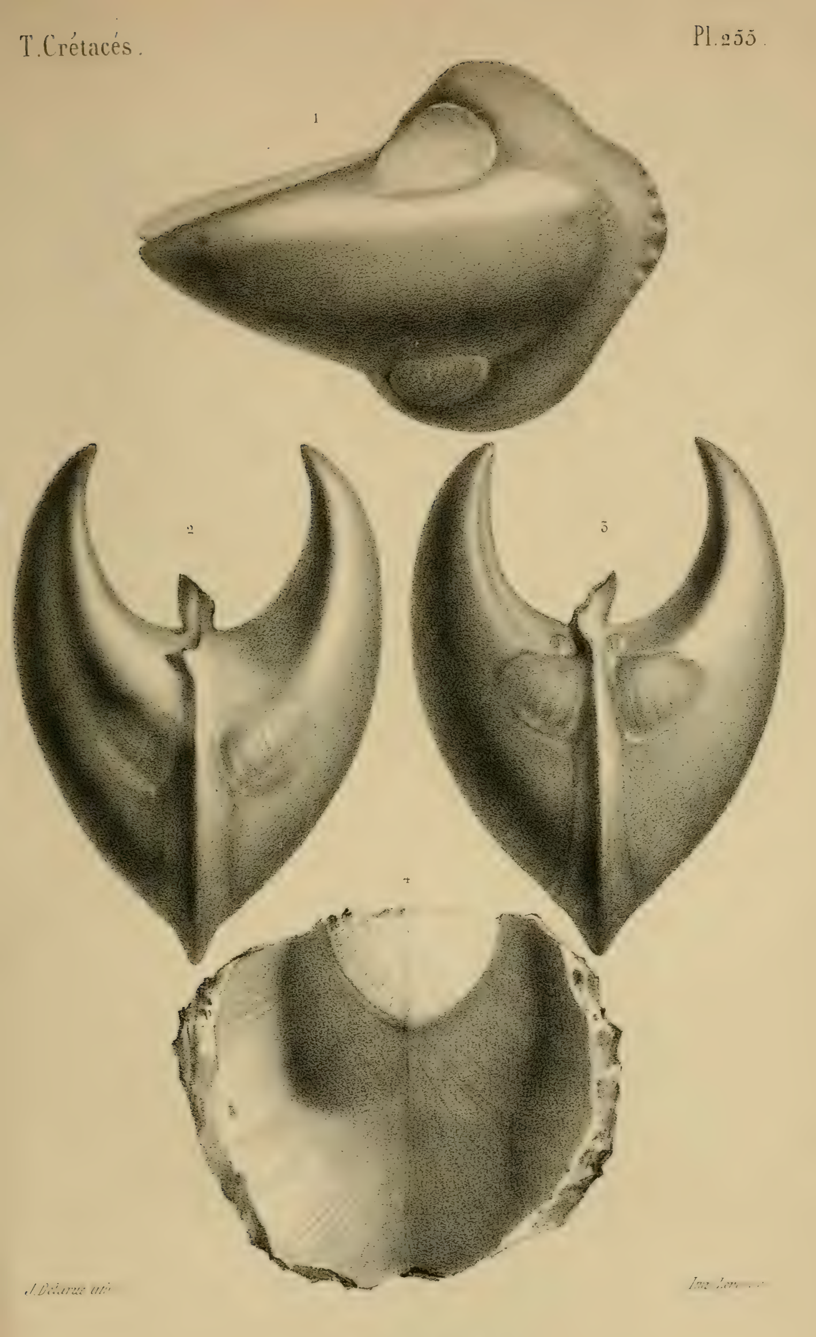
1.5. Opis neocomiensis, d'Orb. N.
6.8. O. Hugardiana, d'Orb. G.



J. Delarue lith.

Imp. Lemercier

1-3. *Opis sabaudiana*, d'Orb. G.
4-9. *O. elegans*, d'Orb. C.C.



J. Delarue del.

Imp. Lem...

Opis Truellei, d'Orb. C.C.

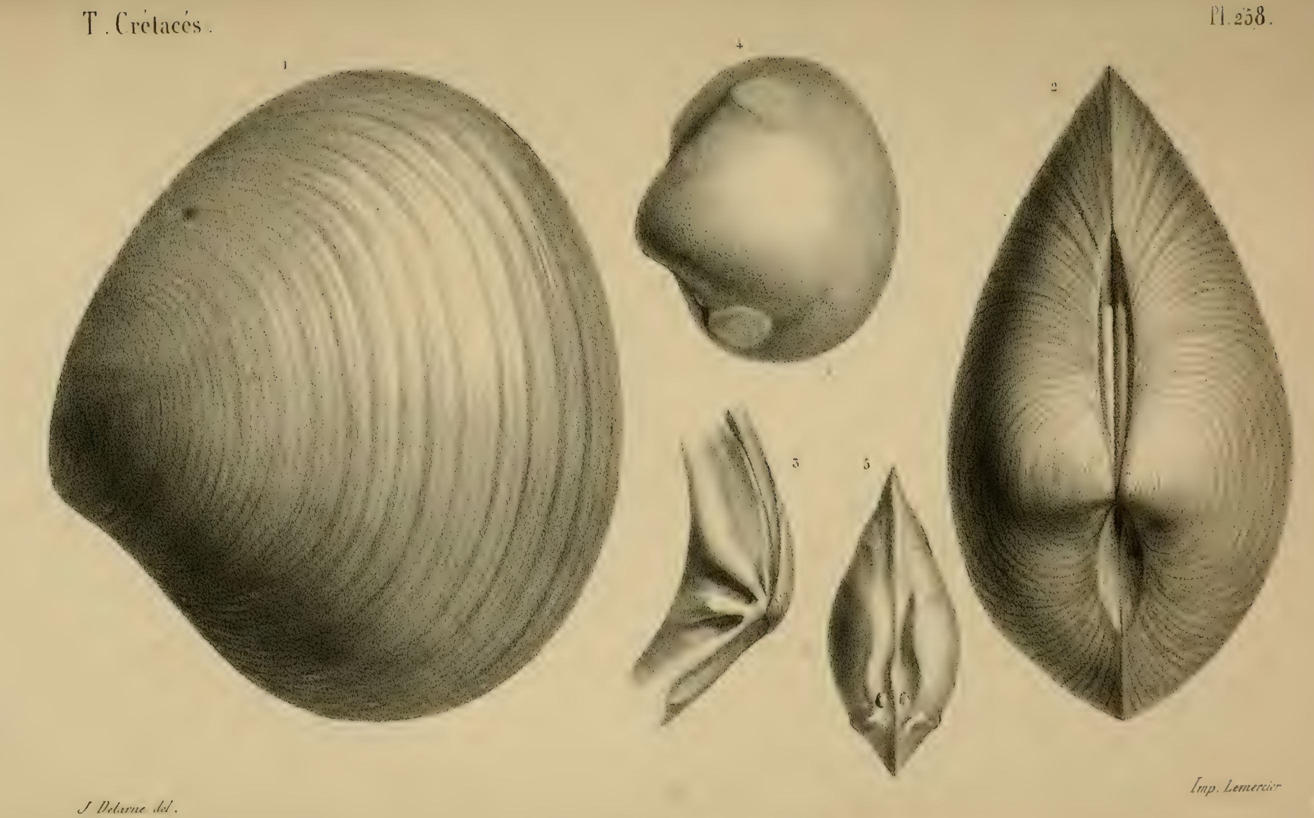
1 2 5 6 3 9 4 10 7 8 11 12

J. Delarue del.

1-2. *Cardium Cornuelianum*, d'Orb. N.
3-6. *C.——— inornatum*, d'Orb. N
7-12. *C.——— Mailleanum*, d'Orb. CC.

J. Delarue del. Imp. Lemercier.

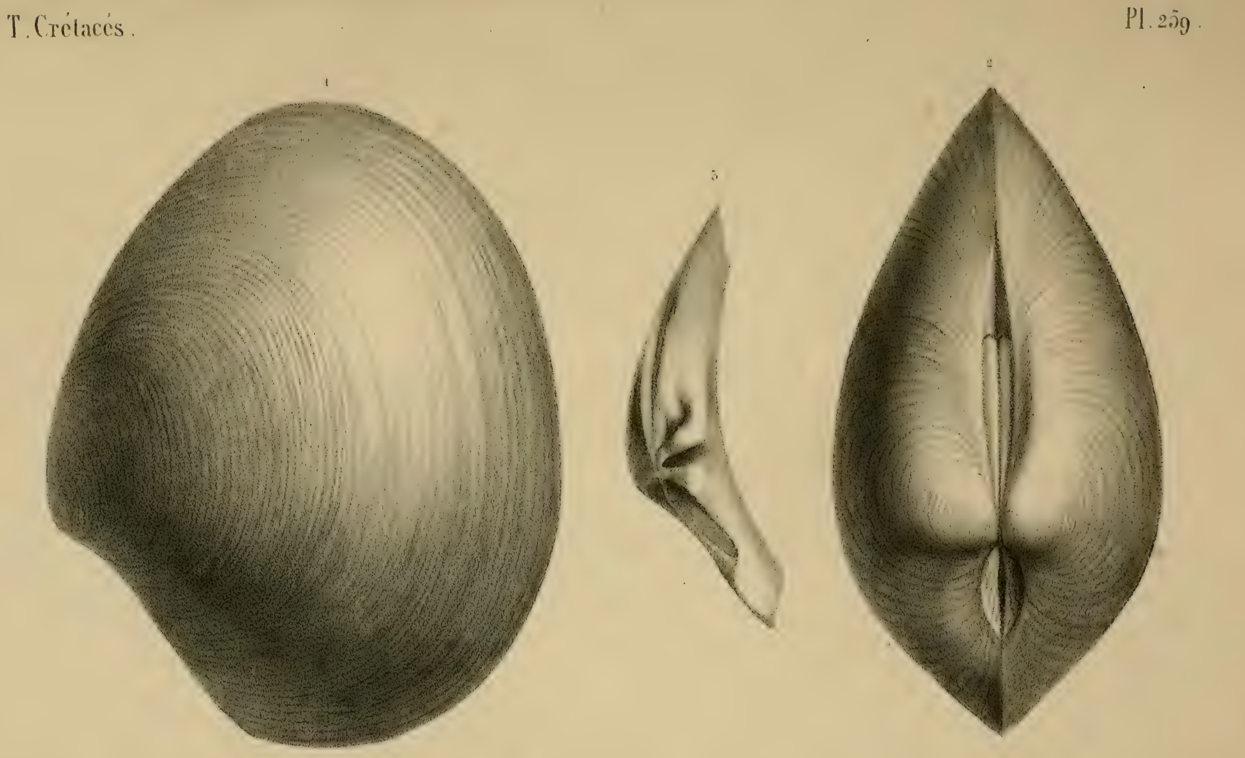
1.3. *Cardium ventricosum, d'Orb. C.C.*
4.6. *Opis — Sabaudiana, d'Orb. G.*
7.9. *O. — Coquandiana, d'Orb. C.C.*



J. Delarue del.

Imp. Lemercier

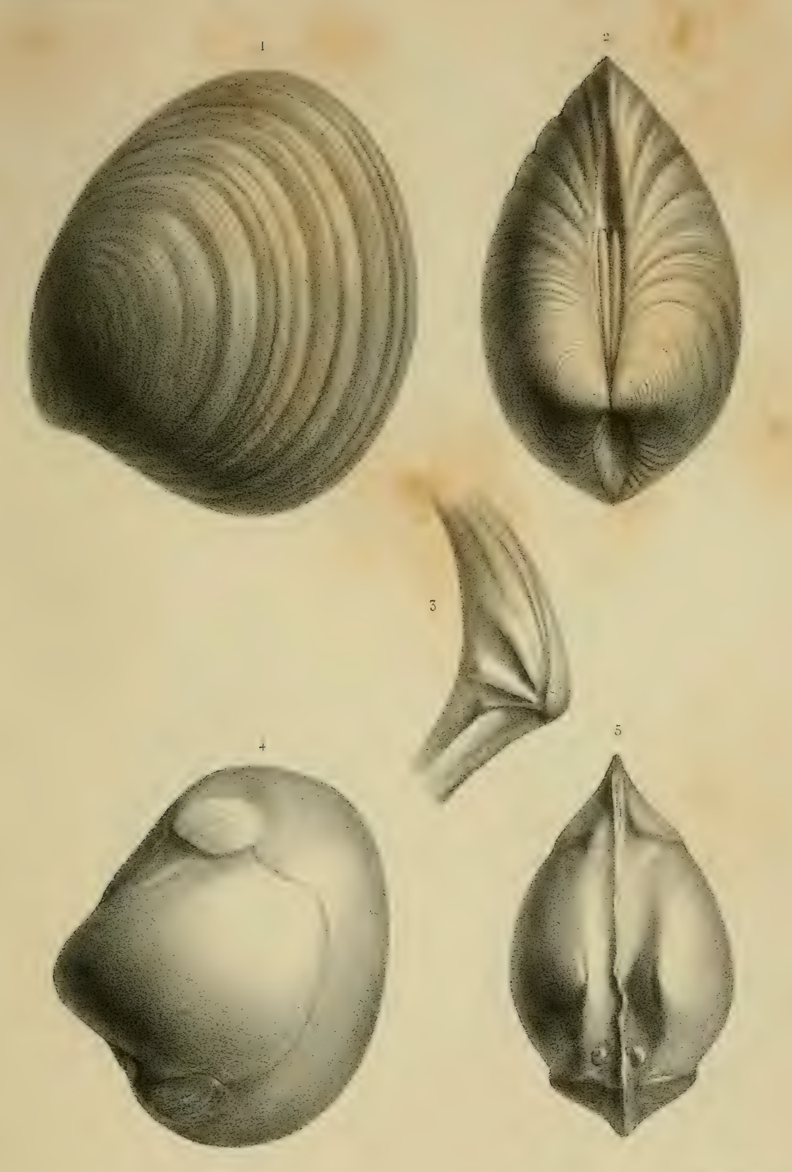
Astarte Gigantea, Desh. N.



J. Delarue del.

Imp. Lemercier.

Astarte Moreausa, d'Orb. N.



J. Delarue lith.

Imp. Lemercier.

Astarte Beaumontii, Leym. . V.



1

4

5

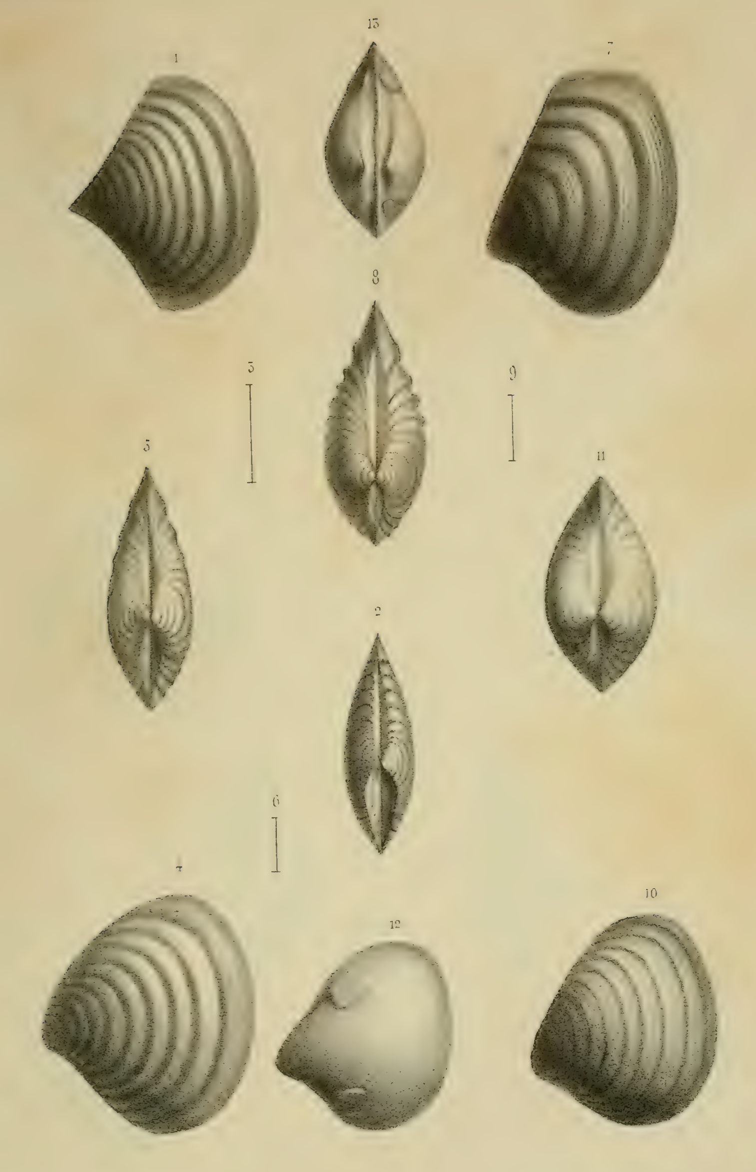
2

3

J. Delarue lith

Imp. Lemercier

Astarte transversa, Leym. N.



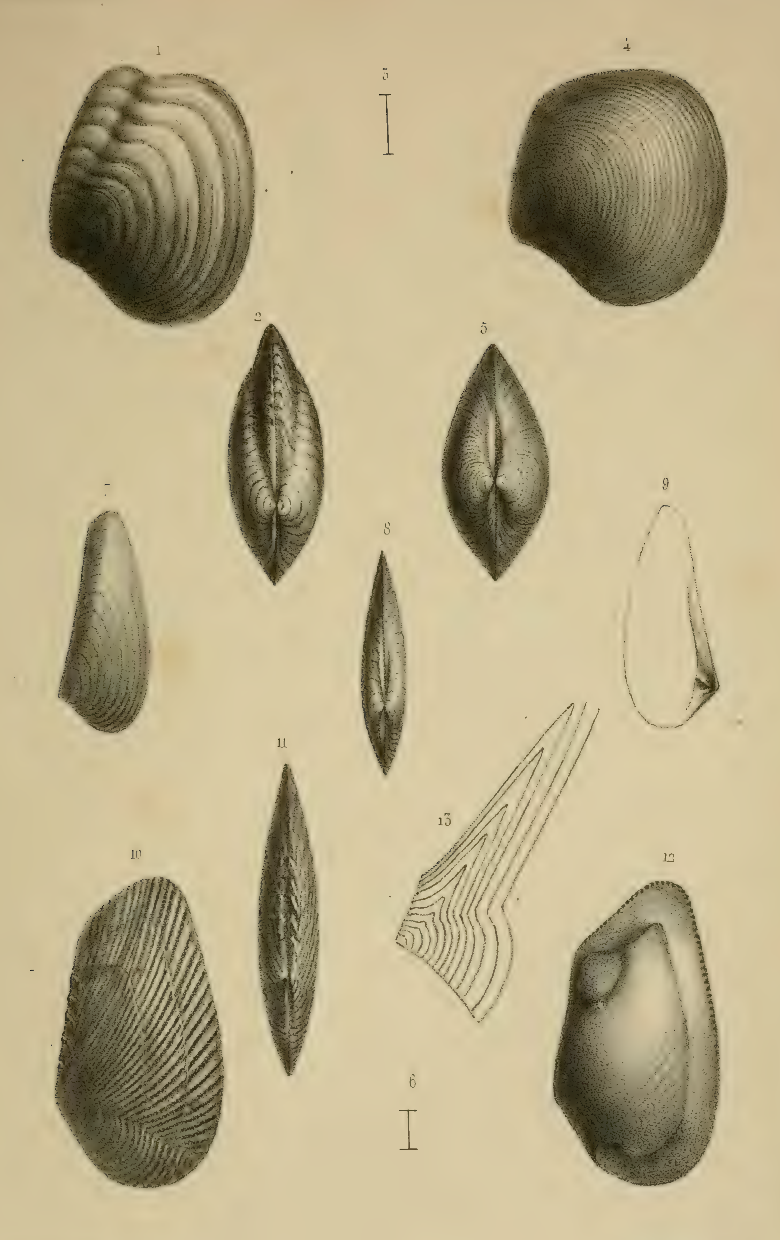
J. Delarue lith. Imp. Lemercier

1. 3. *Astarte carinata, d'Orb. N.* | 7. 9. *Astarte striato-costatas, d'Orb. N.*
4. 6. *A. — numismalis, d'Orb N.* | 10. 12. *A — formosa, Fitton. N.*



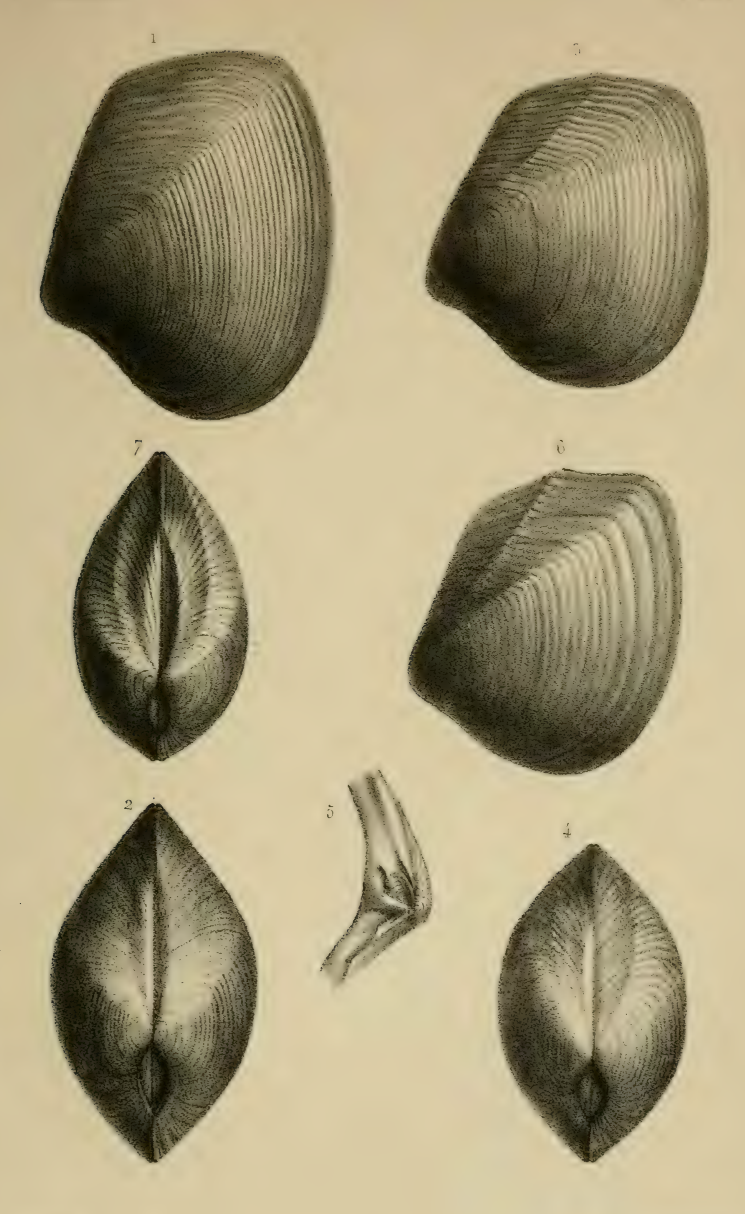
J. Delarue lith. Imp. Lemercier

1.4. Astarte disparilis, d'Orb. N.
5.8. A. ——— substriata, Leym N.
9.11. A. ——— oblonga, Desh. N.



J. Delarue lith. Imp. Lemercier.

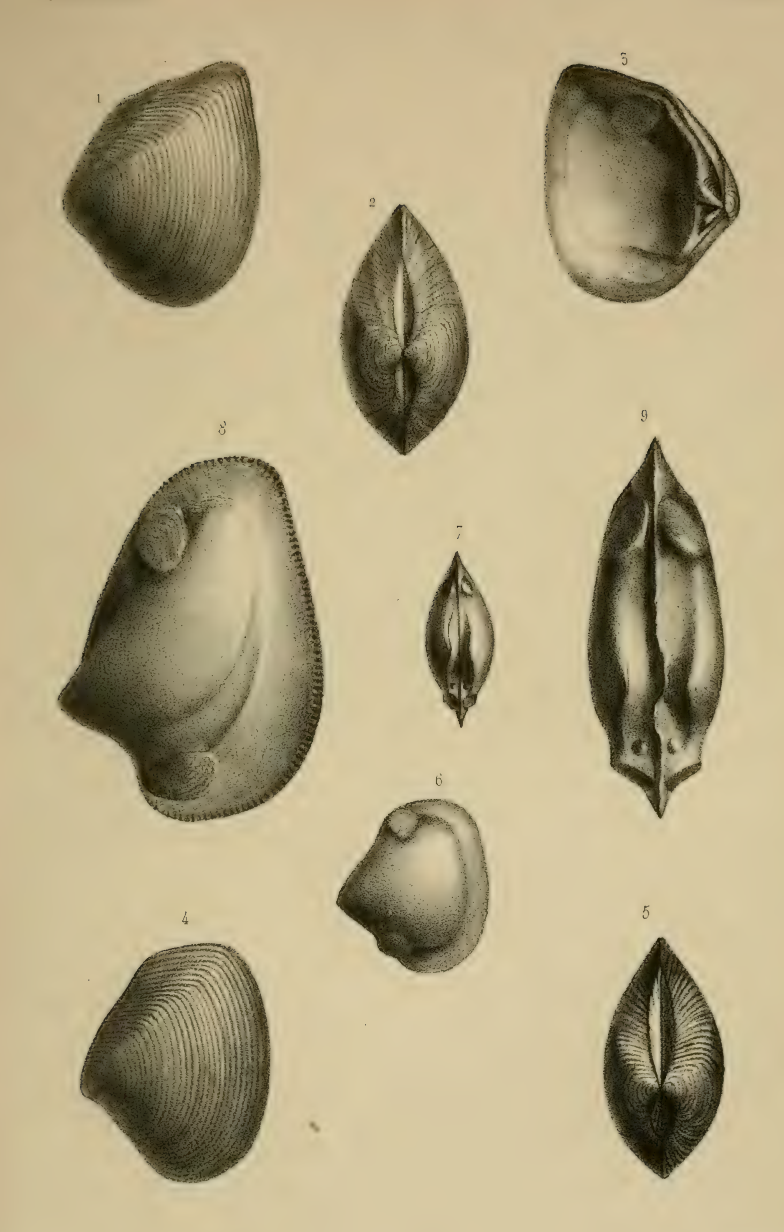
1-3. Astarte sinuata, d'Orb. A.
4-6. A. —— Dupiniana, d'Orb. G.
7-9. Crassatella Cornueliana, d'Orb. N.
10-13. C. —— Robinaldina, d'Orb. N.



J. Delarue lith.

Imp. Lemercier

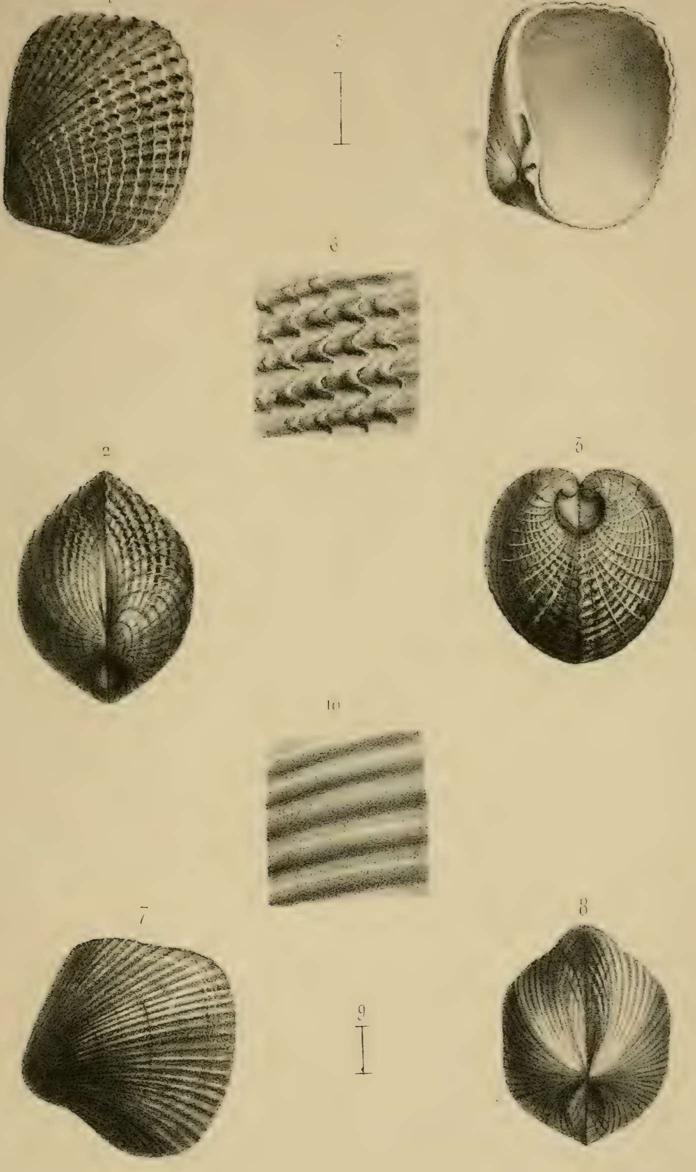
1_2. Crastatella Guerangeri, d'Orb. C.C.
3_5. C.______ ligeriensis, d'Orb. C.C.
6_7. C.______ pyrenaica, d'Orb. C.C.



J. Delarue lith

Imp. Lemercier

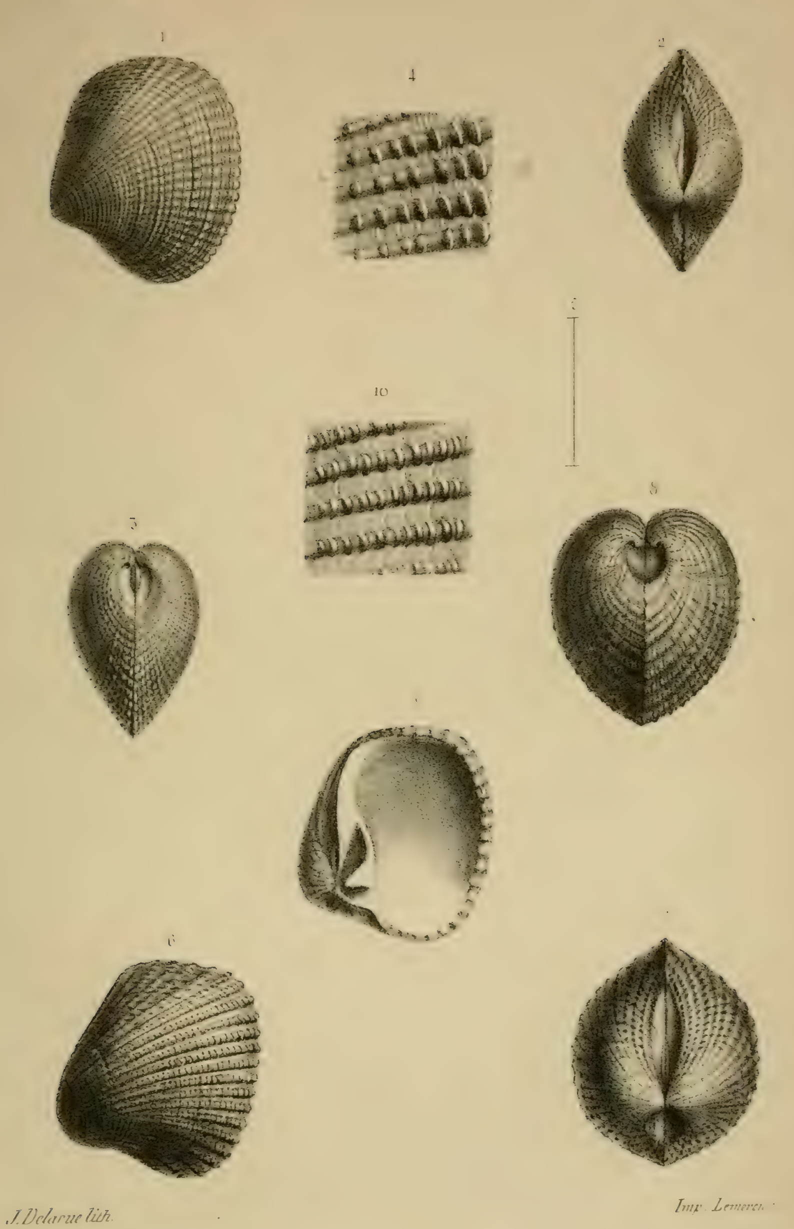
1, 3 . *Crassatella Vindinnensis*, d'Orb. C.C.
4, 6 . *C. ——— regularis*, d'Orb, C.C.
7, 8 . *C. —— Marrotiana*, d'Orb. C.



J. Delarue lith.

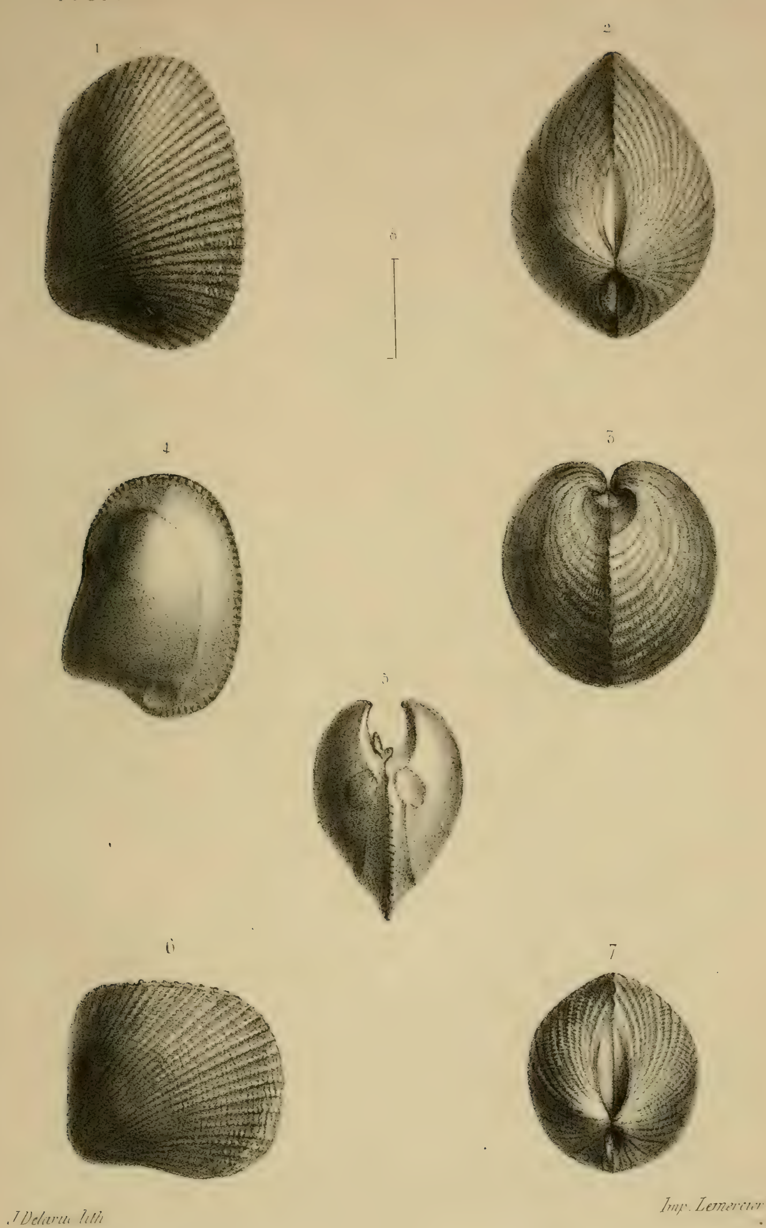
Imp. Lemercier

1.5. *Venericardia neocomiensis*, d'Orb. N.
6.9. *V. quadrata*, d'Orb. N.



J. Delarue lith. Imp. Lemercier

1.5. Venericardia tenuicosta. Fitton G.
6.10. V. Dupiniana. d'Orb. G.



1.5. Venericardia Constantii, d'Orb. G.

6.8. V. Cottaldina, d'Orb. C.C.

1 2

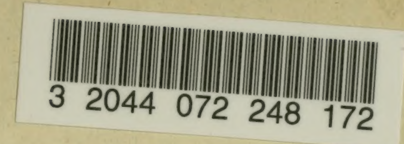
3

4 10 8



J. Delarue lith. Imp. Lemercier.

1-5. Venericardia dubia, Sowerby C.C.
6-10. V. Guerangeri, d'Orb. C.C.


3 2044 072 248 172

